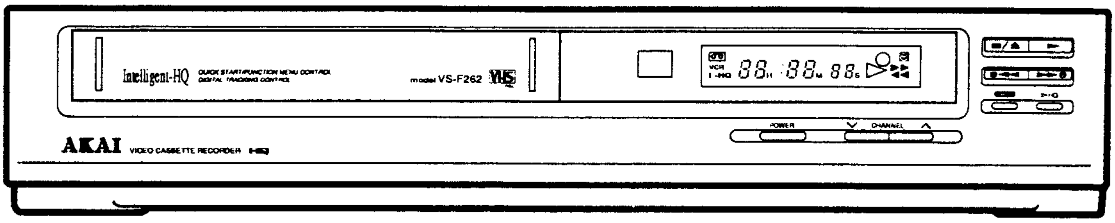
VS-F260, 261, 262
VS-F265, 270, 275

AKAI SERVICE MANUAL


Intelligent-HQ
QUICK START/FUNCTION MENU CONTROL
DIGITAL TRACKING CONTROL
model VS-F262
AKAI VIDEO CASSETTE RECORDER HQ
POWER
CHANNEL

HQ
HIGH QUALITY
VHS
PAL

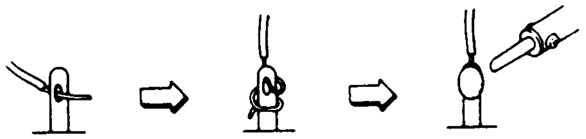
VIDEO CASSETTE RECORDER

MODEL VS-F260 EA/EDG/EK/EM/EO/EOH/ES
MODEL VS-F261 EA
MODEL VS-F262 EA
MODEL VS-F265 EOH
MODEL VS-F270 EOG
MODEL VS-F275 EOH
MODEL VS-F280 EK/EO/EOG-V/EOH
MODEL VS-F290 EOH

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with the specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.

Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

TO PROTECT THE POWER SUPPLY CIRCUIT

Do not turn on the power while the flat cable in the power BLK is disconnected, as this will damage the power circuit.

Make sure that the flat cable is connected before turning on the power.

★SPECIFICATIONS

Format	
EA/EK/ES	VHS standard
EDG/EM/EO/EOH/ EOG/EOG-V	VHS standard (PAL, MESECAM)
Video recording system	Rotary, slant azimuth two-head helical scan system
Rotary heads	2 video heads
RF input	
EA	System B, G VHF ch 0 - 5, 5a, 6 - 11 UHF ch 21 - 69
EDG	System D, K VHF ch1 - 12, UHF ch 21 - 69 System B, G VHF ch 2 -12, UHF ch 21 - 69
EK	System I UHF ch 21 - 69
EM	System B, G (PAL, SECAM) VHF ch 2 -12, UHF ch 21 - 69
EO/EOG/EOG-V	System B, G (PAL, SECAM) VHF ch 2 - 4, 5 - 12, UHF ch 21 - 69 Cable ch S1' -S3', S1 - S20
EOH	System B, G (PAL, SECAM) VHF ch 2 - 4, 5 - 12, UHF ch 21 -69 Cable ch S1'- S3', S1 - S41
ES	System I VHF ch A - J (Ireland) ch 4 - 13 (South Africa) UHF ch 21 - 69
RF output	
EA	System B type modulation VHF ch 0, 1 switchable (preset ch 1)
EDG	System K/G type modulation UHF ch 30 - 39 adjustable (preset ch 36)
EM	System B type modulation VHF ch 3,4 switchable (preset ch 4)
EK/ES	System I type modulation UHF ch 30 - 39 adjustable (preset ch 36)
EO/EOG/EOG-V/EOH	System G type modulation UHF ch 30 - 39 adjustable (preset ch 36)
Recording (line input)	
EA/EK/ES	PAL
EDG/EM/EO/EOG/ EOG-V/EOH/	PAL, SECAM (recorded as MESECAM)
Playback (line output)	
EA/EK	PAL
EDG/EO/EOG/ EOG-V/EOH	PAL, SECAM (MESECAM Tape)
EM	PAL, SECAM (MESECAM tape) NTSC 4.43 (NTSC tape) Simulated PAL (NTSC tape playback only)
ES	PAL NTSC 4.43 (NTSC tape) Simulated PAL (NTSC tape playback only)
Video	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines
Audio	
Line input level	−6 dBs/50 k ohms, unbalanced
Line output level	−6 dBs/1 k ohms, unbalanced
S/N ratio	More than 40 dB
Frequency response	70 - 10,000 Hz
Recording/playback time	240 min. with E-240 cassette
NTSC playback (EM/ES)	160 min. with T-160 cassette
Tape speed	23.39 mm/sec.
NTSC playback (EM/ES)	33.35 mm/sec.
Quick finder	Approx. 9 times normal speed
NTSC playback (EM/ES)	Approx. 7 times normal speed
FF, REW time	Approx. 5 min. with E-180 cassette
Timer	8 programme /1 year
Clock reference	Quartz crystal
Display	TV screen & FL (Tape counter, Timer etc.)
Power requirements	
EA/EK	240 V AC, 50 Hz
ES/EDG	220 V AC, 50 Hz
EO/EOG/EOG-V/EOH	220-230 V AC, 50 Hz
EM	110-127/220-240 V AC, 50/60 Hz
Power consumption	
EA/EK/EM/ES	36 W
EDG/EO/EOG	37 W
EOG-V/EOH	38 W
Operating temperature	5°C - 40°C
Dimensions	
F260EA/EDG/EM/EOH/ES F262EA,F275EOH F280EK/EO/EOH	426(W) x 82(H) x 314(D) mm
F260EK/EO,F261EA F265EOH,F270EOG F280EOG-V,F290EOH	425(W) x 82(H) x 313(D) mm
Weight	5.0 kg

Standard accessories

Antenna cable	1	
Remote control unit	1	
Batteries for remote control	2	
Operator's manual	1	
AC plug adaptor	1	[VS-F260EM (Y7) only]

0 dBs = 0.775 V

* For improvement purposes, specifications and design are subject to change without notice.

★INFORMATION

SYMBOLS OF MODEL NAMES FOR PRIMARY DESTINATION

The symbols below indicate the destination of each unit.

Symbol	Power Classification	Principal Destination	TV System	
			Color	Broadcast
EA	S	Australia	PAL	B,G
ED	E	China	PAL	D
EDG	E	East Europe	PAL	D,K
EDI	E	China, Hong Kong	PAL	D,K, I
EG	E	Spain, Nothern Europe, Other	PAL	B,G
	Y7	Saudi Arabia		
EK	B	U.K	PAL	I
	Y1	Hong Kong		
EM	E	Middle East	PAL	B,G
	Y7	Saudi Arabia		
EO	E	Holland, Switzerland, Nothern Europe	PAL	B,G
	V	Italy		
EOH	E	Holland, Belgium	PAL	B,G
	V	Italy		
EOG	V	Germany	PAL	B,G
ES	E	South Africa, Ireland, Hong kong	PAL	I
EV	E	South-East Asia	PAL	B,G
	U	Middle East, South -East Asia		
	Y1	New Zealand		
	Y7	Saudi Arabia		
EZ	S	New Zealand	PAL	B,G
EGN	E	Middle East	PAL,NTSC	B,G
	Y7	Saudi Arabia		
S	E	France	SECAM	L
SK	E	Latin America, Oceania, SECAM-OIRT	SECAM	K,K1
SEG	E	France, Switzerland	SECAM, PAL	L,B,G
U	A	U.S.A	NTSC	M
	C	Canada		
UM	U	Latin America	NTSC	M
J	J	Japan	NTSC	M

SAFETY LOCK SYSTEM

The play button on the VCR and remote control can be locked to prevent access by young children (this feature does not effect other functions of the VCR).
This feature can only be operated by the remote control.

To lock : Press and hold the remote control's stop button for approx. 8 seconds. As long as the play button is locked, safety lock indicator " L " will light on the FL display and "🗝" will flash on the TV screen any time the play button is pressed.

To unlock : Press and hold the remote control's play button for approx. 8 seconds. If a tape is loaded, the safety lock indicator will disappear from the FL display and TV screen, and playback will begin automatically.

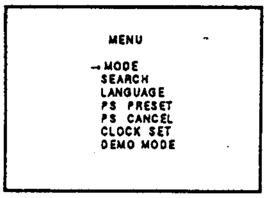
MULTI-FUNCTION MENU MODE

This is an on-screen display of the various modes you can programme via the TV screen.

MODE : To select the AV MUTE and OSD modes.
SEARCH : To select the BLANK SEARCH and INTRO SCAN modes.
LANGUAGE : To select a language for the on-screen displays.
PS PRESET : To preset TV stations.
PS CANCEL : To cancel preset TV stations.
CLOCK SET : To set the clock.
DEMO MODE : To demonstrate some of the modes available on this VCR.

If necessary, refer to the respective sections in the operator's manual for detailed information.

1. Press the "MENU" button on the remote control unit.
   The menu list screen will be displayed on the TV screen.
   The arrow indicator is automatically set to the "MODE" position.



MENU

→ MODE
SEARCH
LANGUAGE
PS PRESET
PS CANCEL
CLOCK SET
DEMO MODE

2. Select the desired mode by setting the arrow indicator to the appropriate position with cursor "∨" button.
   The arrow indicator moves downwards each time the button is pressed. Pressing the cursor "∧" button will move the arrow indicator upwards.

3. Press the "OK" button.
   The selected function screen will be displayed on the TV screen.

∗ Press the "MENU" button again to return to the normal screen.

MANUAL TRACKING/PICTURE/STABILITY ADJUSTMENT

The VCR can be adjusted for tracking and picture sharpness anytime it is in the playback mode with the remote control unit.

- **Manual tracking control**
  Press the "<" or ">" cursor botton repeatedly until the picture is clear. During manual tracking adjustment, the tracking position is shown on the TV screen, this will disappear automatically after adjustment has been completed. Use this function when performing the A/C HEAD phase adjustment.

- **Picture sharpness control**
  Press the "∧" button repeatedly to sharpen the picture or press the "∨" button to soften the picture.

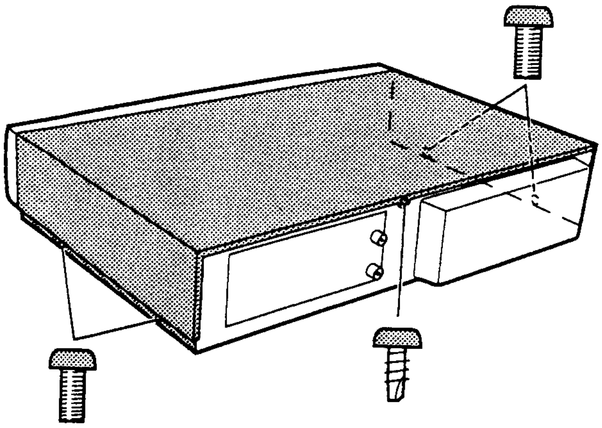
- **Stability adjustment**

1) To correct picture shake during the slow motion or still mode:
   Press "∧" or "∨" cursor button until the picture shake is corrected.
2) To correct tracking during the still mode:
   Press the "<" or ">" cursor button repeatedly until the picture is clear.

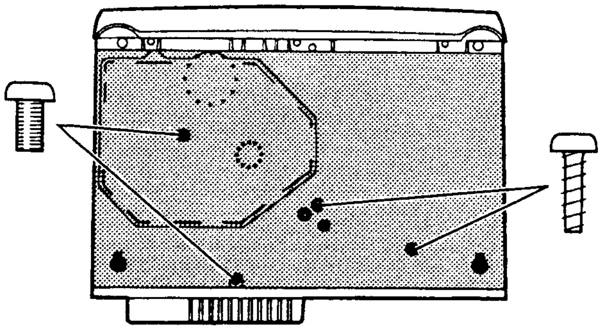
I. DISASSEMBLY

In case of trouble,etc. necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in the reverse order.
When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

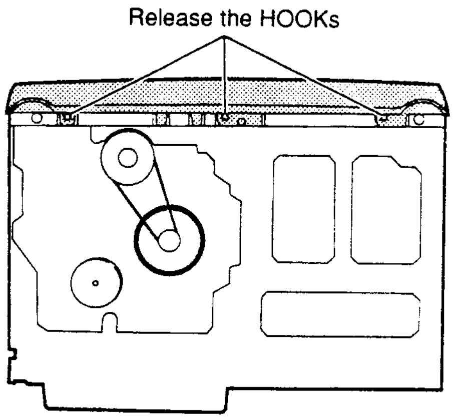
1. Removal of UPPER COVER

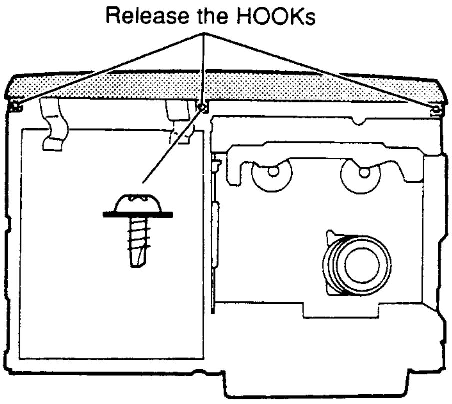


2. Removal of BOTTOM COVER

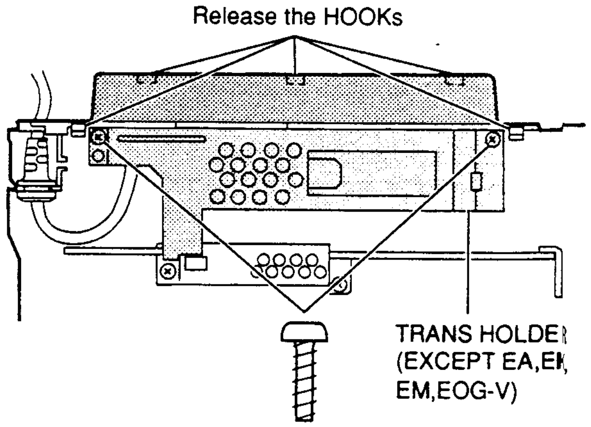


3. Removal of FRONT PANEL


Release the HOOKs


Release the HOOKs

4. Removal of TRANS COVER


Release the HOOKs
TRANS HOLDE
(EXCEPT EA,E
EM,EOG-V)

II. PRINCIPAL PARTS LOCATION

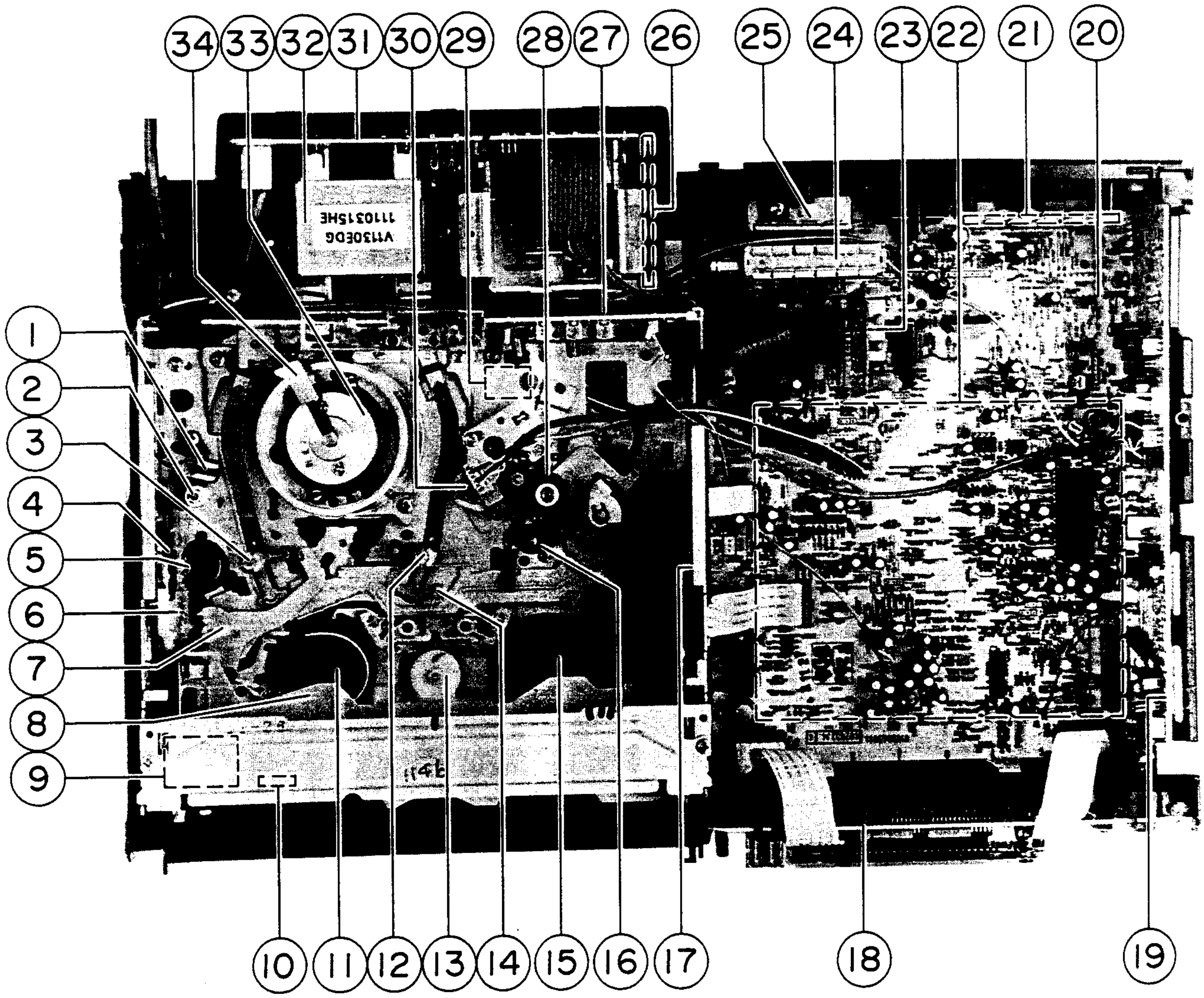


Fig. 2-1 Top view

1. FULL TRACK ERASE HEAD
2. SUPPLY TAPE GUIDE
3. SUPPLY LOADING LEADER
4. SENSOR (S) PCB (END SENSOR)
5. FRONT LOADING GEAR
6. FRONT LOADING SLIDER
7. TENSION ARM
8. CASSETTE LOAD BLK
9. LOADING MOTOR
10. REC SAFETY SWITCH
11. SUPPLY REEL TABLE
12. TAKE UP LOADING LEADER
13. IDLER PART
14. SENSOR LED
15. TAKE UP REEL TABLE
16. CAPSTAN MOTOR
17. SENSOR (T) (START SENSOR)
18. OPERATION (A) PCB
19. MAIN (B) PCB
20. MAIN (A) PCB
21. SUB PCB (EM only)
22. VPS PCB (EOG only)
    VPST PCB (EOG-V only)
23. VIF UNIT
24. TUNER UNIT
25. RF CONVERTOR UNIT
26. POWER SUPPLY (2) PCB (EM, EOG-V only)
27. PRE AMP PCB
28. PINCH ROLLER
29. DIODE PCB (EM, EO, EOH, EOG, EOG-V only)
30. AUDIO/CONTROL/S.ERASE HEAD
31. POWER SUPPLY (1) PCB (EM, EOG-V only)
    POWER SUPPLY PCB (except EM, EOG-V)
32. POWER TRANSFORMER
33. VIDEO HEAD DRUM BLOCK
34. EARTH BRUSH

*Photograph employed on this page is of model VS-F260EDG

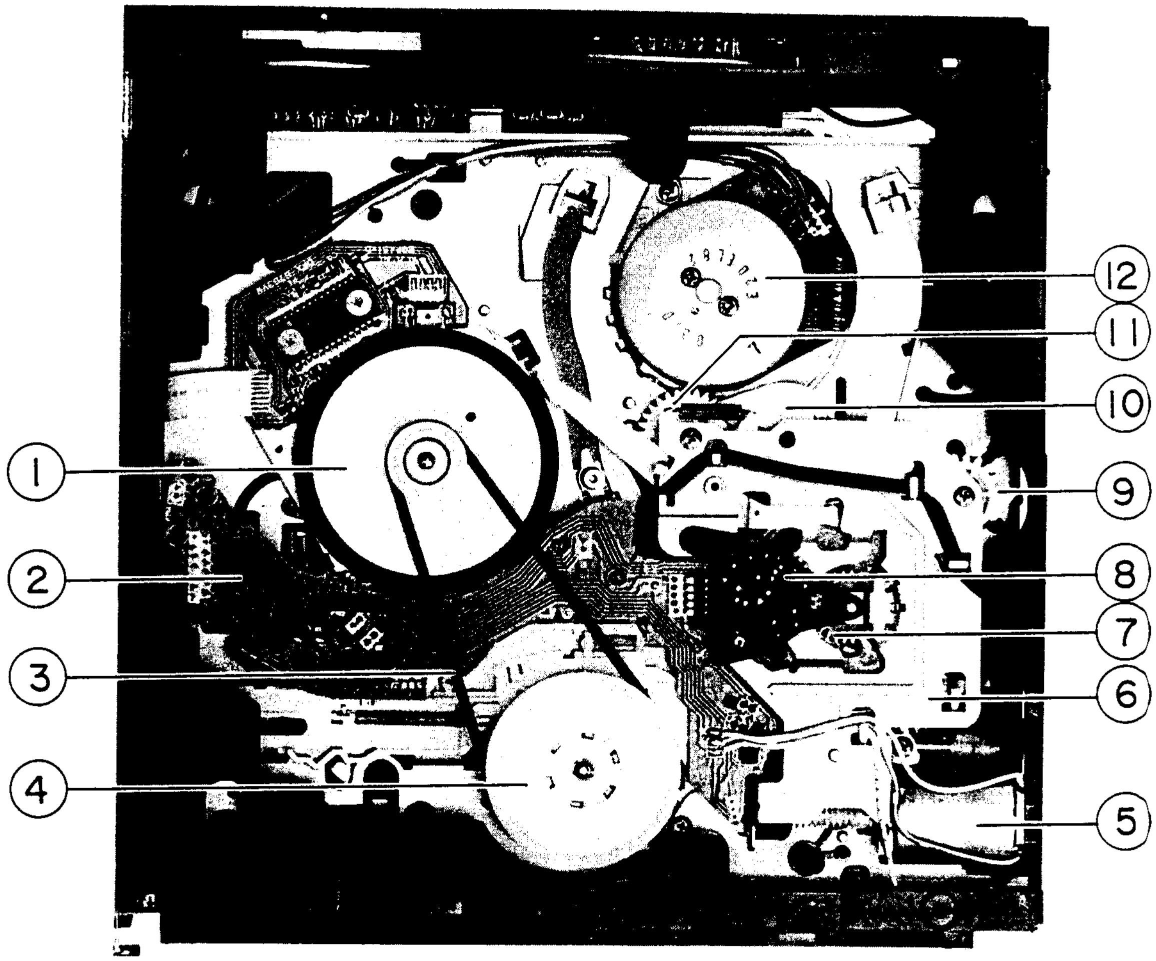


Fig. 2-2 Bottom view

1. CAPSTAN MOTOR BLOCK
2. SENSOR PCB
3. CAPSTAN BELT
4. CLUTCH DISK PART
5. LOADING MOTOR
6. LOADING DRIVE BLOCK
7. CAM SLIDER GEAR
8. MODE SELECT SWITCH
9. FRONT LOADING GEAR
10. TOGGLE (S) GEAR BLOCK
11. TOGGLE (T) GEAR BLOCK
12. DRUM MOTOR BLOCK

III. MAIN COMPONENTS REPLACEMENT

3-1.REMOVAL OF THE EJECTOR BLOCK

Set the loading mechanism to the "EJECT" position by pressing the EJECT button. Then disconnect the AC power plug from the AC socket before proceeding.

3-1-1. Removal of the CASSETTE LOAD BLK

1) Remove the two Ⓐ screws on the UPPER PLATE, as shown in Fig. 3-1 then remove the UPPER PLATE.
2) Lift up the FRONT GUIDE while pushing the CASSETTE LOAD BLK backwardS, then remove the FRONT GUIDE.
3) Gently lift up the front side of the CASSETTE LOAD BLK, then remove it. To avoid damaging the pins of the CASSETTE LOAD BLK and the groove of the MECHA.FRAME, do not use excessive force when removing the CASSETTE LOAD BLK.

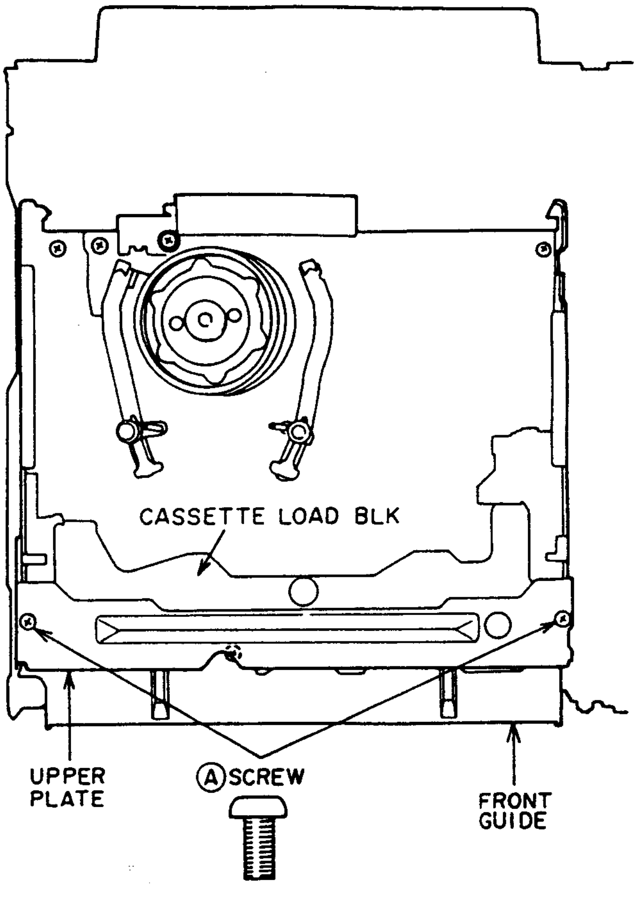


Fig. 3-1

3-1-2. Removal of the LOADING ARM BLK

1) Release the stopper on the right side end of the LOADING ARM BLK's shaft (Refer to Fig. 3-2) by pressing the stopper tab with a flat head (—) screwdriver. Then remove the shaft's right end from the bracket.

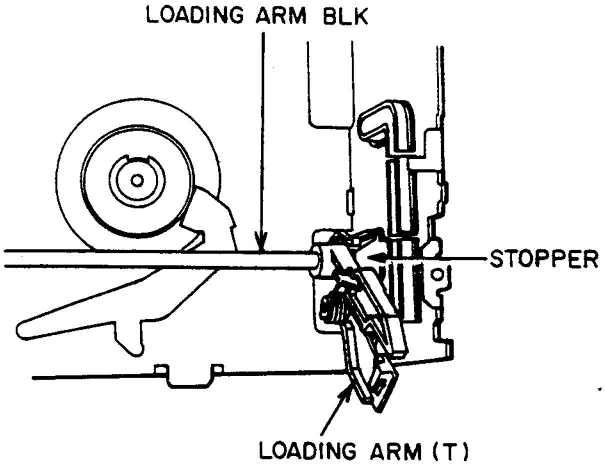


Fig. 3-2

2) Hold the LOADING ARM (T) and turn it 30 degrees clockwise, then pull out the shaft's left end from the bracket. Take special care when removing it to avoid damaging the JOINT and EJECT GEARs. (Refer Fig. 3-3)

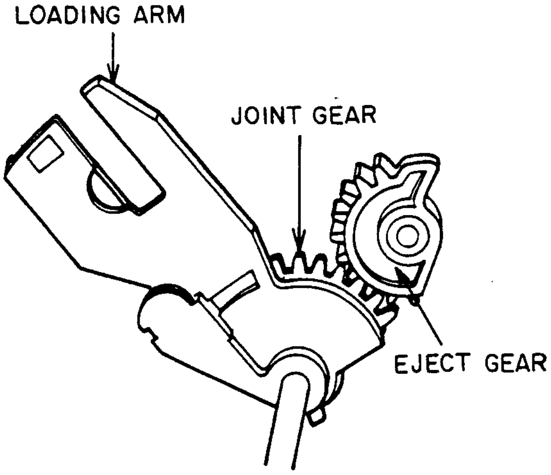


Fig. 3-3

3-2.REMOVAL OF THE SENSOR PC BOARD

∗ Before proceeding with removal of the SENSOR PCB, the loading mechanism must be set to the "unloaded" position (the position where the CAM SLIDER GEAR's groove mark is visible through the hole of the MODE SELECT SW.) as shown in Fig. 3-4.

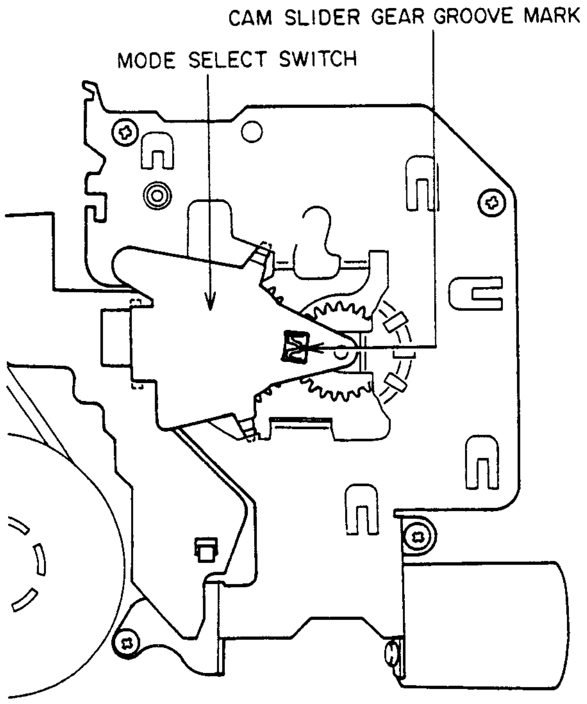


Fig. 3-4

To set the loading mechanism to the "unloaded" position, proceed with one of the following procedures.

1) Insert a video cassette tape which you no longer need. Once the tape has been loaded or has entered the "play" mode, press the POWER button to turn the power off. Disconnect the AC power plug from the AC socket after the cassette tape has been unloaded.
2) Remove the UPPER PLATE, FRONT GUIDE and CASSETTE LOAD BLK. (Refer to 3-1-1. Removal of the CASSETTE LOAD BLK.)
   Plug in the AC power cord. The LOADING ARM BLK will move backward and forward continuously. With your fingers, cover and hold both the SENSOR (S) and SENSOR (T) at the same time when the LOADING ARM BLK is in the backward position. The unit will enter the "play" mode without a cassette tape. Then release your fingers from both the sensors at the same time. After about 10 seconds (when the PINCH ROLLER is disengaged from the CAPSTAN and the SUPPLY REEL stops rotating, and the mechanism is set to "standby"), press the POWER button on the OPERATION (A) PCB.
   The mechanism will now be set to the "tape unloaded" position.
   Disconnect the AC power plug from the AC power socket.

3-2-1. Removal of the MODE SELECT SWITCH

1) Release the two Ⓐ stoppers as shown in Fig. 3-5.

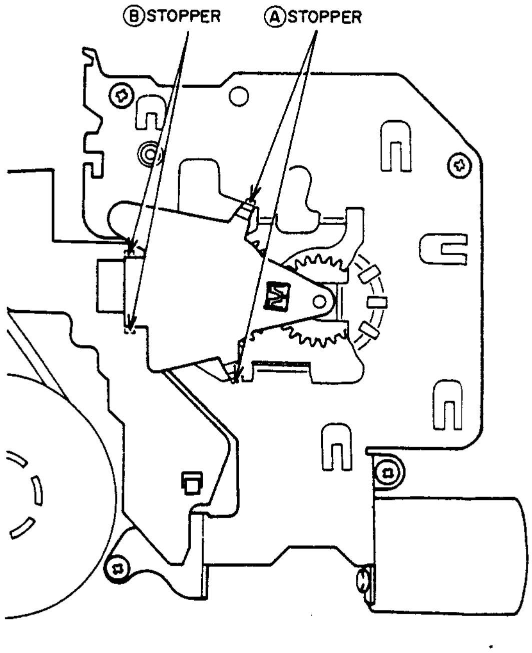


Fig. 3-5

2) Release the two Ⓑ stoppers carefully while pulling up the MODE SELECT SWITCH. Then remove the MODE SELECT SWITCH. (Do not damage the pins of the MODE SELECT SWITCH or the P1 connector on the SENSOR PCB).

3-2-2. Removal of the SENSOR PC Board

1) Disconnect the connector P303 on the MAIN (A) PCB.
2) Remove the capstan belt.
3) Release the Ⓐ, Ⓑ and Ⓒ stoppers as shown in Fig. 3-6. Then remove the SENSOR PCB.

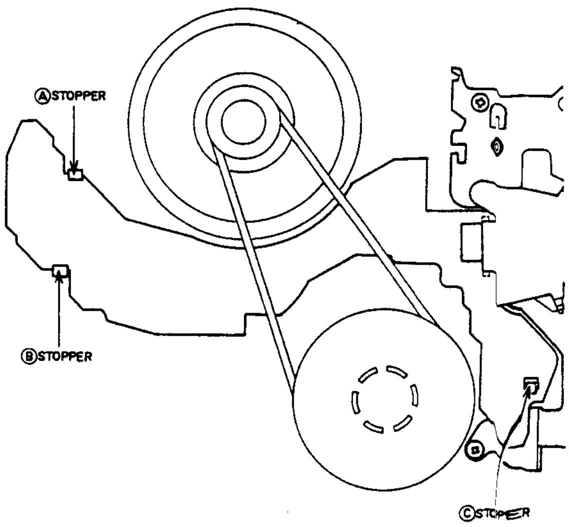


Fig. 3-6

3-3.REMOVAL OF THE LOADING DRIVE BLK

Set the loading mechanism to the "unloaded" position as well as 3-2 (REMOVAL OF THE SENSOR PC BOARD). However, this time, to avoid damaging the tape and mechanical parts, refer to 3-2, ＊ 2) only.

1) Remove the MODE SELECT SWITCH (refer to 3-2-1 Removal of the MODE SELECT SWITCH).
2) Unhook the five wires from each tab. Two wires from the SENSOR (S), two wires from the LOADING MOTOR and one wire from the REC SAFETY SWITCH.
3) Remove the Ⓐ, Ⓑ, Ⓒ and Ⓓ screws, then remove the LOADING DRIVE BLK as shown in Fig. 3-7.

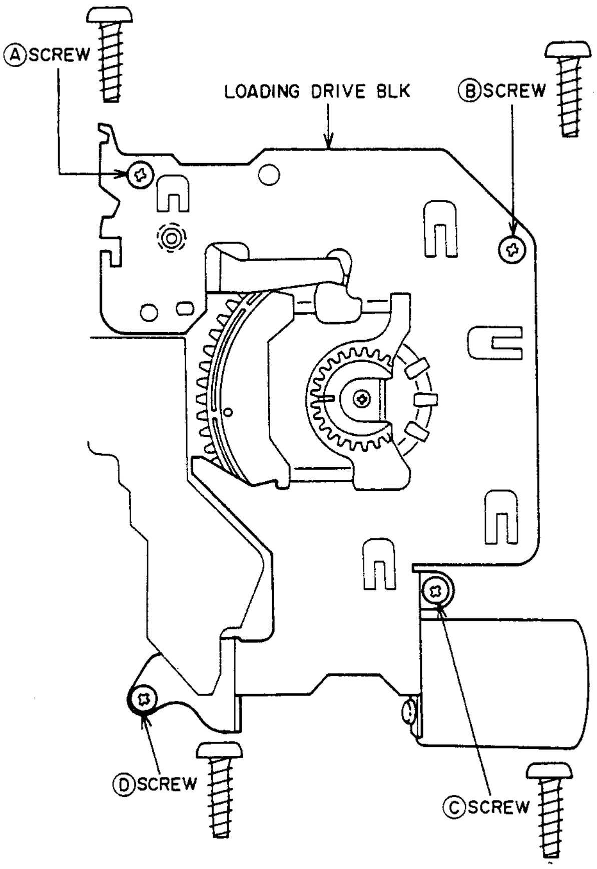

ⒶSCREW
LOADING DRIVE BLK
ⒷSCREW
ⒹSCREW
ⒸSCREW

Fig. 3-7

3-4.REASSEMBLY OF THE LOADING MECHANISM BLK

3-4-1. Position of the TOGGLE GEARs (T) and (S)

1) Set the TOGGLE GEARs (T) and (S) to the unloaded position with your fingers. Align the Ⓐ mark on TOGGLE GEAR (S) with the Ⓐ hole of TOGGLE GEAR (T) as shown in Fig. 3-8.

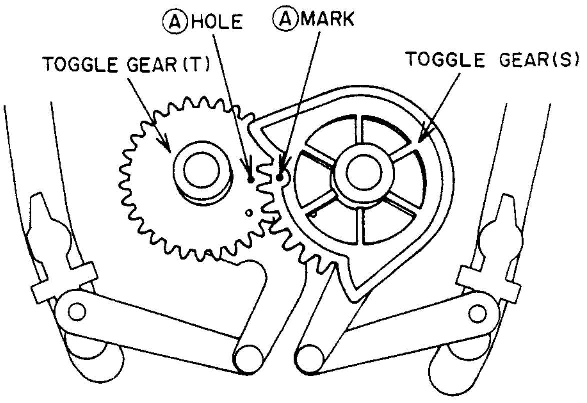

ⒶHOLE
ⒶMARK
TOGGLE GEAR(T)
TOGGLE GEAR(S)

Fig. 3-8

3-4-2. Installation of the CAM SLIDER GEAR & FRONT LOADING GEAR

1) Attach the WORM WHEEL GEAR as shown in Fig. 3-9.

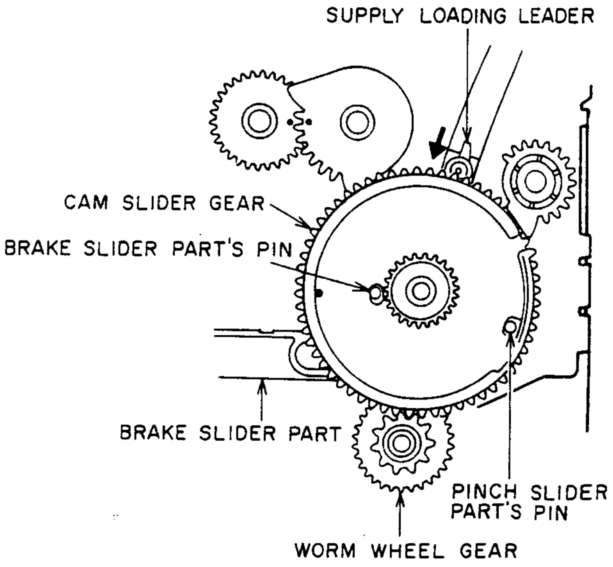

SUPPLY LOADING LEADER
CAM SLIDER GEAR
BRAKE SLIDER PART'S PIN
BRAKE SLIDER PART
PINCH SLIDER PART'S PIN
WORM WHEEL GEAR

Fig. 3-9

2) Set the CAM SLIDER GEAR and adjust the position of the BRAKE SLIDER PART and PINCH SLIDER PART so that both pins appear through the holes on the CAM SLIDER GEAR as shown in Fig. 3-9. When inserting the CAM SLIDER GEAR onto its shaft, press the SUPPLY LOADING LEADER slightly in the direction of the arrow to make installation easy.

3) Attach the FRONT LOADING GEAR as shown in Fig. 3-10 and align the Ⓑ mark on the FRONT LOADING GEAR with the Ⓑ hole of the FRONT LOADING SLIDER as shown in Fig. 3-11.

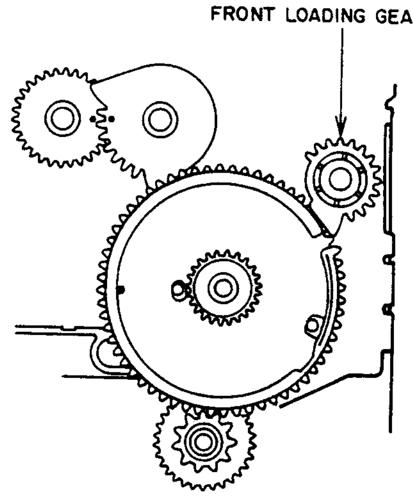

FRONT LOADING GEAR

Fig. 3-10

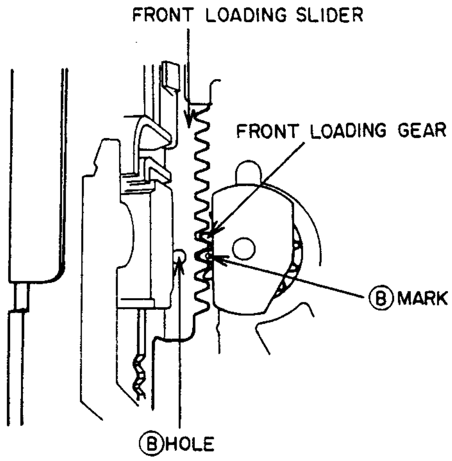

FRONT LOADING SLIDER
FRONT LOADING GEAR
ⒷMARK
ⒷHOLE

Fig. 3-11

3-4-3. Confirmation of the position of the EJECT GEAR

1) Confirm that the EJECT GEAR is in the correct position as shown in Fig. 3-12.

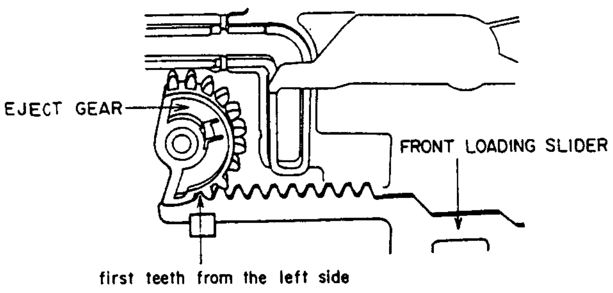

EJECT GEAR
FRONT LOADING SLIDER
first teeth from the left side

Fig. 3-12

2) Install the LOADING DRIVE BLK as shown in Fig.3-13.

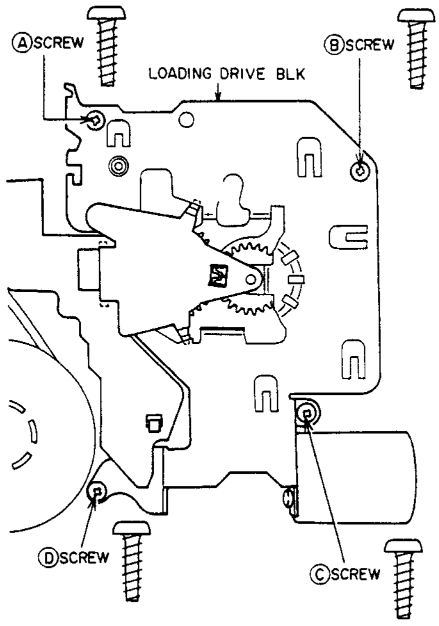

ⒶSCREW
ⒷSCREW
LOADING DRIVE BLK
ⒹSCREW
ⒸSCREW

Fig. 3-13

3-4-4. Installation of the MODE SELECT SWITCH

1) Set the MODE SELECT SWITCH's gear, so that the Ⓒ mark is in the center of the Ⓒ hole as shown in Fig. 3-14.

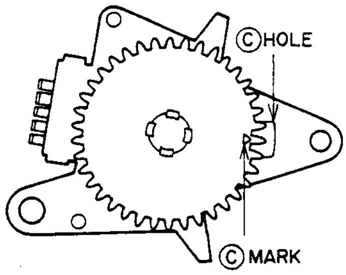


Fig. 3-14

2) Attach the MODE SELECT SWITCH to the LOADING DRIVE BLK and align the hollow of the gears tooth (reverse side of the Ⓒ mark) with the Ⓒ groove of the CAM SLIDER GEAR as shown in Fig. 3-15.

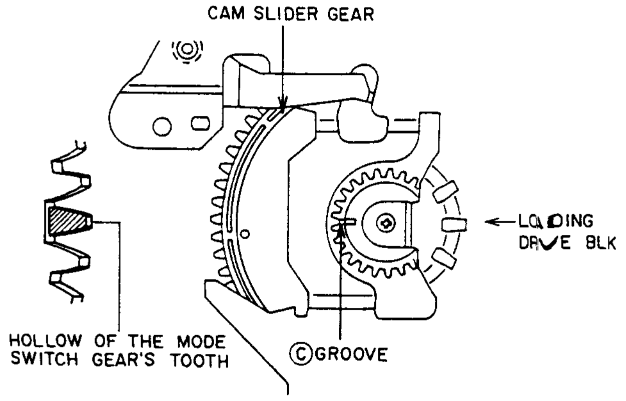

CAM SLIDER GEAR
LOADING DRIVE BLK
HOLLOW OF THE MODE SWITCH GEAR'S TOOTH
ⒸGROOVE

Fig. 3-15

3-4-5. Installation of the LOADING ARM BLK

1) While covering SENSOR (S) with your fingers, connect the AC power plug to the AC socket. The FRONT LOADING SLIDER will reach the "EJECT" position. Then disconnect the AC power plug from the AC socket before you release your fingers from SENSOR (S).
2) Install the LOADING ARM BLK in the reverse order of 3-1-2 (Removal of the LOADING ARM BLK). Position the EJECT GEAR and the JOINT GEAR as shown in Fig. 3-16.

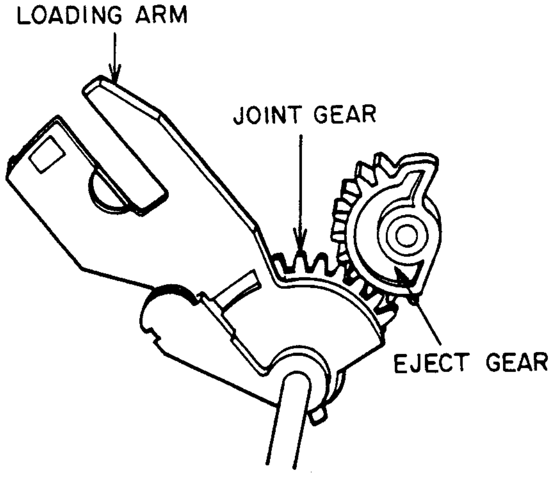


Fig. 3-16

3-4-6. Installation of the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE

1) Attach the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE in the reverse order of 3-1-1 (Removal of the CASSETTE LOAD BLK).
2) Insert a video cassette tape and confirm that the loading mechanism operates properly.

3-5. REPLACEMENT OF THE PINCH ROLLER PART

1) Remove the Ⓐ screw, then remove the PINCH ROLLER part, as shown in fig. 3-17
2) Set the pinch roller so that white plastic spacer side faces chassis when replacing. Then tighten the Ⓐ screw.

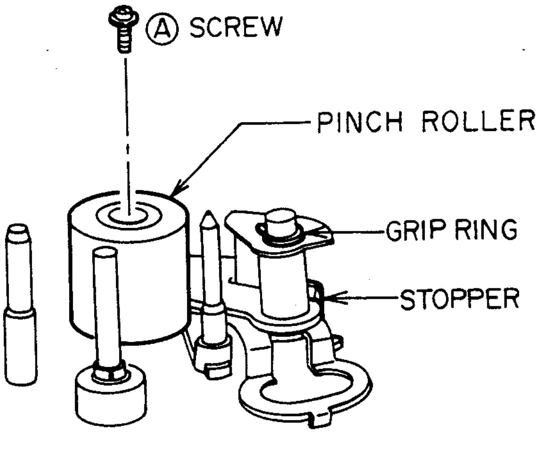


Fig. 3-17

3-6. REPLACEMENT OF THE IDLER PART AND REVIEW BRAKE PART

1) Remove the CASSETTE LOAD BLOCK & LOADING ARM BLK. (refer to 3-1, REMOVAL OF THE EJECTOR BLOCK).
2) Release the stopper of IDLER PART as shown in Fig. 3-18, then remove it.

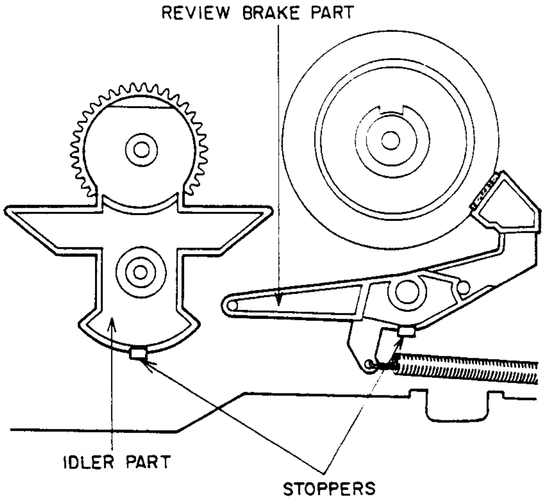


Fig. 3-18

3) Take off the review brake part spring, then release the stopper of the REVIEW BRAKE PART and remove it.
4) Reassemble the parts in the reverse order of steps 1) to 3).

3-7. REPLACEMENT OF THE UPPER DRUM

3-7-1. Removal of the UPPER DRUM

1) Remove one of the PRE AMP retaining screw and remove the EARTH BRUSH.
2) Unsolder the four relay leads and remove the two upper drum fixing screws as shown in Fig. 3-19.
3) Gently lift and remove the UPPER DRUM.

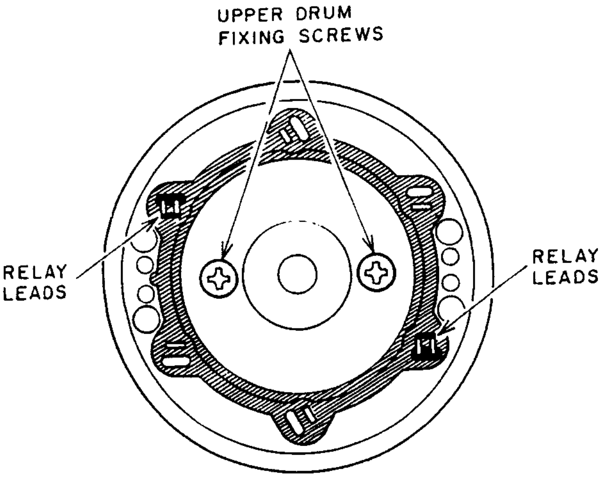


Fig. 3-19

3-7-2. Installation of the UPPER DRUM

1) Attach the UPPER DRUM to the LOWER DRUM ROTOR, so that the upper drum convex Ⓐ and lower drum rotor's white PCB side line up, as shown in Fig. 3-20.

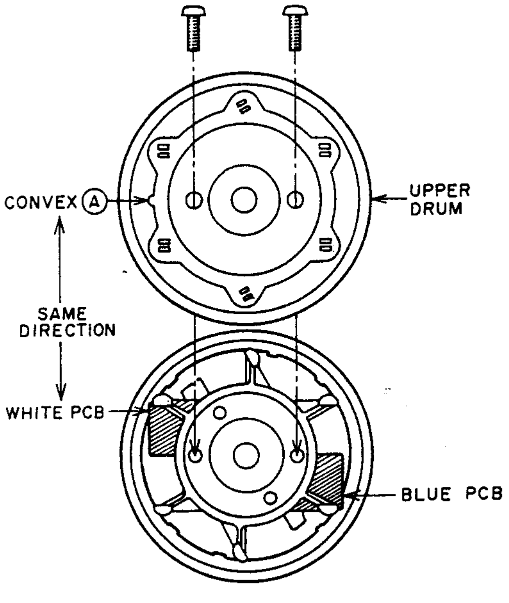


Fig. 3-20

NOTE: Because height precision is required for proper performance, and because head tips are fragile, the following points should be noted when replacing the UPPER DRUM BLOCK.

(a) Do not loosen the set screw on the collar preload.
(b) Before fixing, use alcohol to clean both surfaces where the upper drum and the rotary transformer meet.
(c) If the UPPER DRUM can not be inserted on to the shaft easily during installation, clean the hole in the UPPER DRUM with alcohol and put a little oil on the shaft.
(d) Make sure that the upper drum fixing screw holes, on the rotary transformer part, and the upper drum fixing screw penetration holes match exactly before inserting the fixing screws.
(e) Tighten the two upper drum fixing screws alternately and gradually.

3-7-3. After replacement

After replacement, the following adjustments are necessary for the proper performance.

1) Control head Phase adjustment (IV. MECHANICAL ADJUSTMENT 4-3-3.)
2) PB switching point adjustment. (V. ELECTRICAL ADJUSTMENT Step 1)
3) Video head REC current adjustment. (V. ELECTRICAL ADJUSTMENT Step 6)
4) ENV.DET (I-HQ) adjustment. (V.ELECTRICAL ADJUSTMENT Step 10)

3-8. DRUM MOTOR PC BOARD REPLACEMENT

1) Remove the two Ⓐ screws on the ROTARY PLATE and then remove it.
Then disconnect the connector on the DRUM MOTOR PCB as shown.

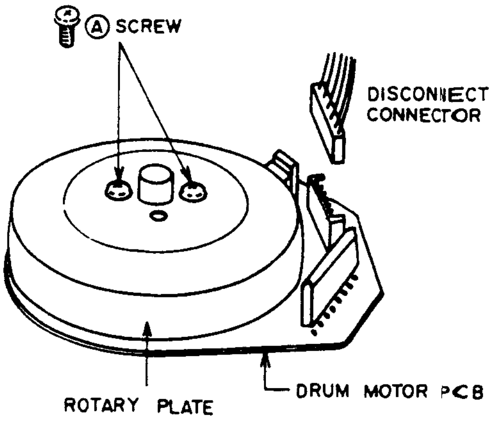


Fig. 3-21

2) Remove the three Ⓑ screws which retain the DRUM MOTOR PCB and replace it.

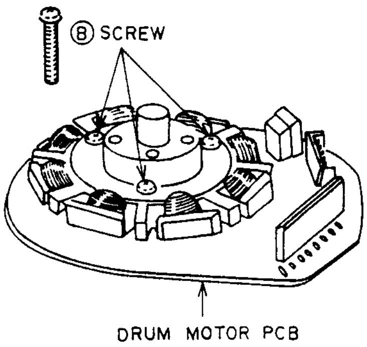

Ⓑ SCREW
DRUM MOTOR PCB

Fig. 3-22

3) Attach the ROTARY PLATE to the collar preload so that the rotary plate Ⓒ hole and collar preload Ⓓ hole line up.

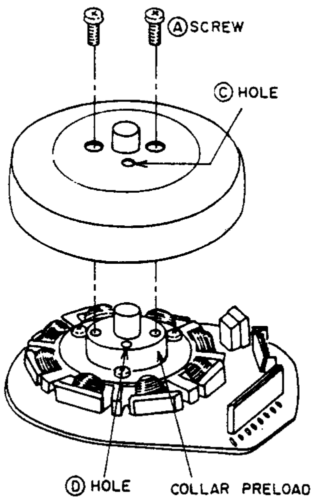

Ⓐ SCREW
Ⓒ HOLE
Ⓓ HOLE
COLLAR PRELOAD

Fig. 3-23

3-9. REMOVAL OF THE MECHANISM BLOCK

3-9-1. Removal of the PRE AMP PC Board

1) Remove the Ⓐ screw and remove the EARTH BRUSH as shown in Fig. 3-24.

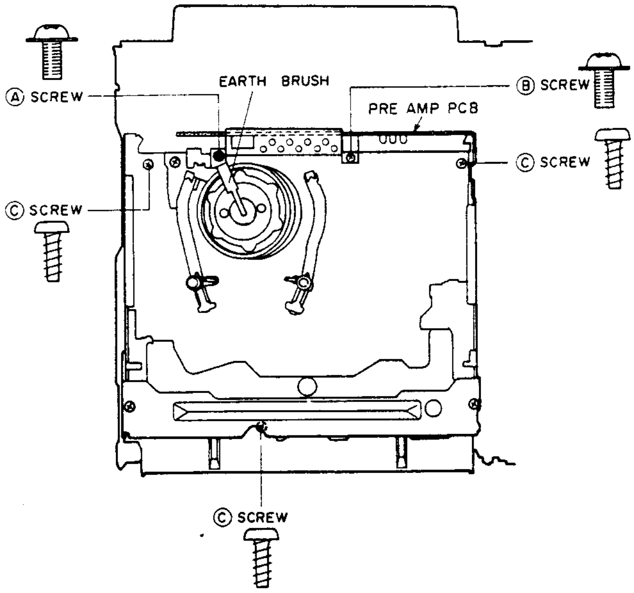

Ⓐ SCREW
EARTH BRUSH
PRE AMP PCB
Ⓑ SCREW
Ⓒ SCREW
Ⓒ SCREW
Ⓒ SCREW

Fig. 3-24

2) Remove the DIODE PCB retaining screw and remove the DIODE PCB (it depends on the model which you are working on).
3) Remove the Ⓑ screw then pull up the PRE AMP PCB carafully.

3-9-2. Removal of the MECHANISM BLK (MECHA. FRAME)

1) Disconnect the connectors P301, P302, P303 on the MAIN (A) PCB and P1 on the A/C HEAD PCB.
2) Disconnect the connector on the FULL TRACK ERASE HEAD.
3) Remove the three Ⓒ screws from the MECHA. FRAME as shown in Fig. 3-24.
4) Hold the rear side of the MECHA. FRAME then remove it by pulling it up backwards.
5) Reassemble in the reverse order for installation.

IV. MECHANICAL ADJUSTMENT

4-1.BACK TENSION ADJUSTMENT

1) Prepare a video cassette tape which you no longer needed. Remove both tape reels and the tape protection cover from the cassette tape. Then cover the video cassette's left and right side detection holes with black adhesive tape.
2) Play back the tapeless cassette which you prepared.
3) Confirm the distance between Ⓐ groove on the TENSION ARM and the Ⓐ mark on the MECHA. CHASSIS so that the distance should be within the value shown in Fig. 4-1
4) If the result is not satisfactory, eject the tape and adjust the TENSION ADJUST repeatedly until the result is satisfactory.

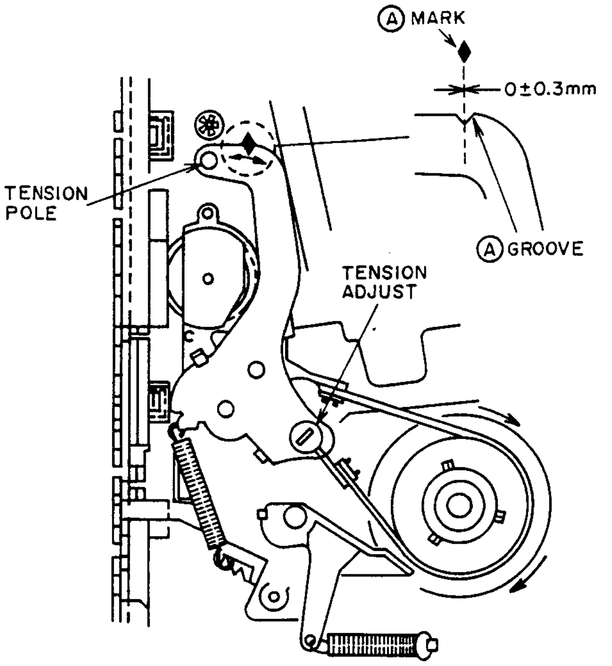


Fig. 4-1

4-2.TAPE TRANSPORT ADJUSTMENTS

NOTE: The following adjustments are required only when an irregularity is found, since these adjustment are precisely set at the factory.

4-2-1. Tape curl adjustment at the TAKE-UP TAPE GUIDE

1) Play back a recorded tape which is no longer needed.
2) Turn the Ⓐ screw on the A/C HEAD BLK, until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle.
3) Once the Ⓐ screw is adjusted, A/C HEAD height and azimuth adjustment is required. (Refer to 4-3. A/C HEAD POSITION ADJUSTMENT.)

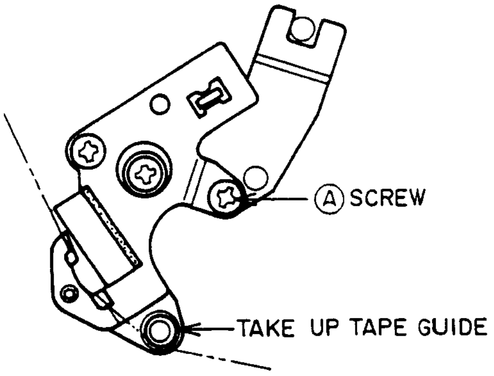
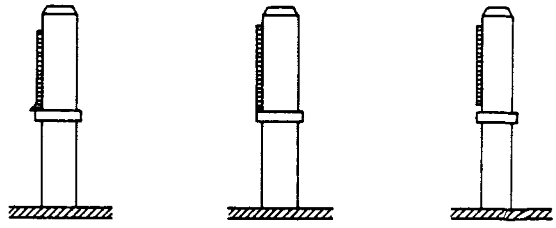


Fig. 4-2

(TAKE-UP TAPE GUIDE)



(a) INCORRECT (b) CORRECT (c) INCORRECT

Fig. 4-3

4-2-2. Confirmation of tape curl on the SUPPLY TAPE GUIDE

Confirm that the edge of the tape barely touches the lower part of the SUPPLY TAPE GUIDE, without any curl or wrinkle as shown in Fig. 4-4.

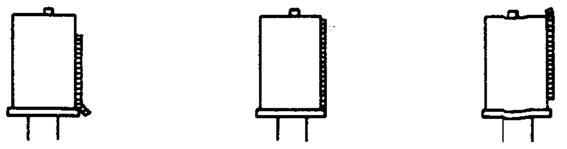


Fig. 4-4

4-2-3. REVIEW ARM height adjustment

1) Play back the beginning part of an E-240 tape and set the unit to the REVIEW mode by pressing the REW button. (Remove the tape protection cover to make the adjustment easier.)

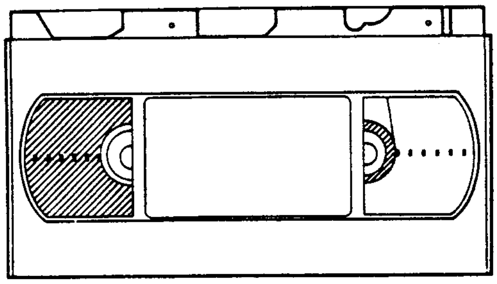


Fig. 4-5

2) Turn the REVIEW ARM height Ⓐ nut so that the edge of the tape barely touches the lower part of the TAKE-UP TAPE GUIDE, without any curl or wrinkle between the TAKE-UP TAPE GUIDE and the CAPSTAN SHAFT as shown in Fig. 4-6 to Fig. 4-8.

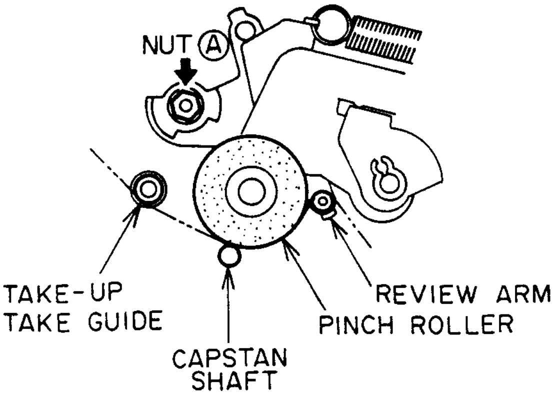
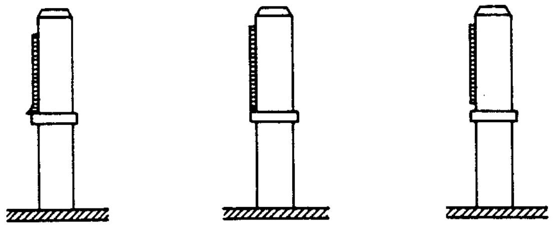


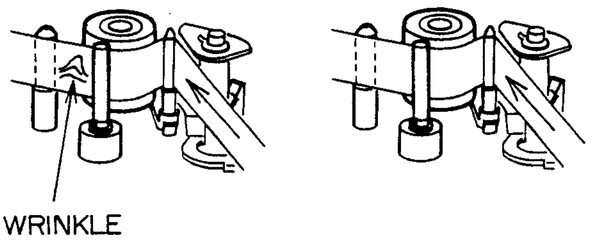
Fig. 4-6

(TAPE-UP TAPE GUIDE)



(a) INCORRECT (b) CORRECT (C) INCORRECT

Fig. 4-7

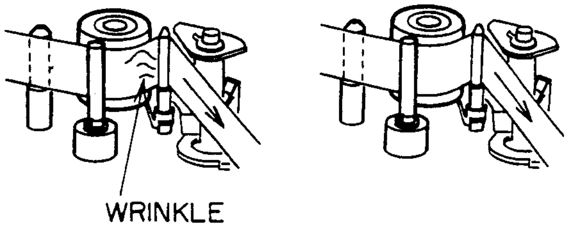


INCORRECT CORRECT

Fig. 4-8

3) Play back the beginning part of an E-240 tape and this time set the unit to the CUE mode by pressing the F.FWD button.

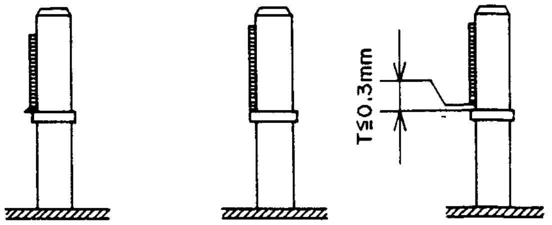
4) Confirm there is no curl or wrinkle near the REVIEW ARM's guide.
If curl or wrinkle of the tape occurs, slightly turn the Ⓐ nut (Shown in Fig. 4-6) until it disappears.



INCORRECT CORRECT

Fig. 4-9

5) Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE-UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable.)



(a) INCORRECT (b) CORRECT (C) CORRECT

Fig. 4-10

NOTE:

1. If the results are not satisfactory, repeat steps 2) to 5).
2. Always play an undamaged tape to obtain satisfactory adjustment.
3. Because an E-240 tape can be damaged easily, due of its thinness, a pre-adjustment with an E-180 tape is recommended.

4-2-4. LOADING LEADER height adjustments

1) Slightly loosen the set screw at the lower part of the LOADING LEADERs (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig. 4-11.)

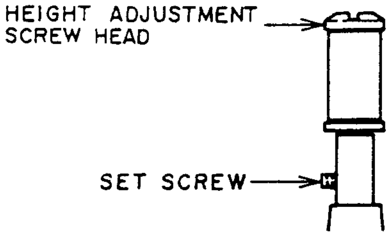

HEIGHT ADJUSTMENT SCREW HEAD
SET SCREW

Fig. 4-11

2) Play back reference tape TF-530RFS (AT-751775).
3) Connect an oscilloscope's CH-1 to TR510 emitter (ENVE) on the MAIN (A) PCB and CH-2 to TP1 (V-SWP) on the PRE AMP PCB for triggering.
4) Turn the LOADING LEADER heads with a flat head (—) screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-12.
5) After adjustment is completed, tighten the loading leader set screws.

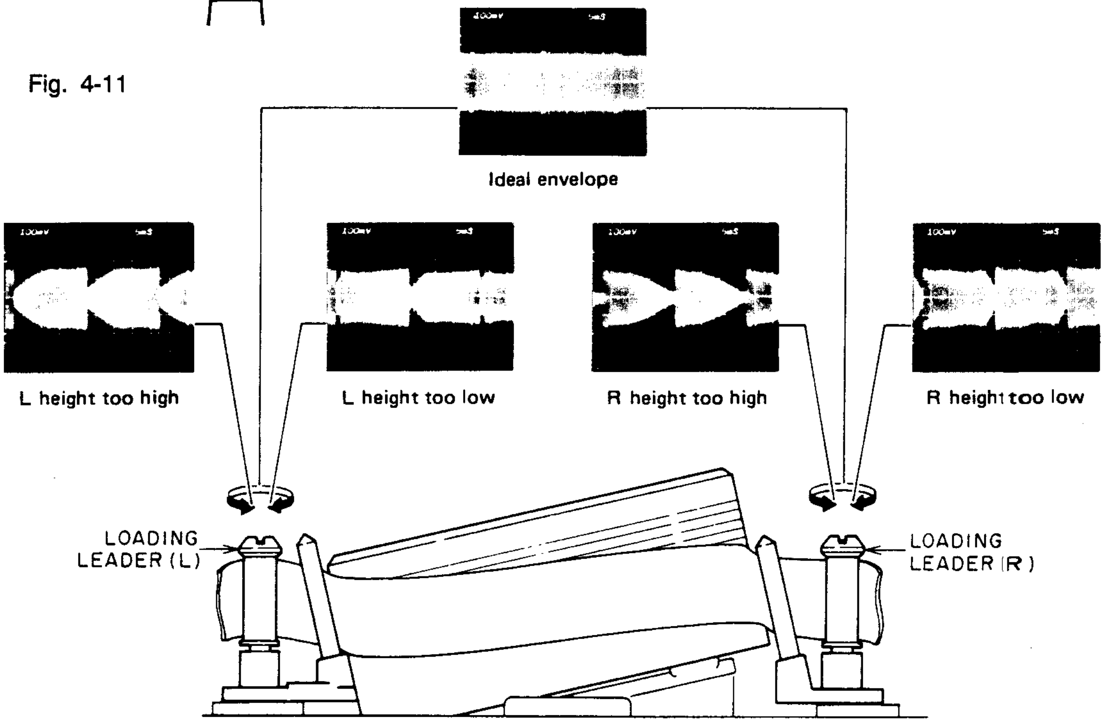

Ideal envelope
L height too high
L height too low
R height too high
R height too low
LOADING LEADER (L)
LOADING LEADER (R)

Fig. 4-12

4-3.A/C HEAD POSITION ADJUSTMENT

4-3-1. Azimuth adjustment

1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
2) Play back reference tape TF-530RFS (AT-751775).
3) Adjust the Ⓑ screw to obtain the maximum audio output.

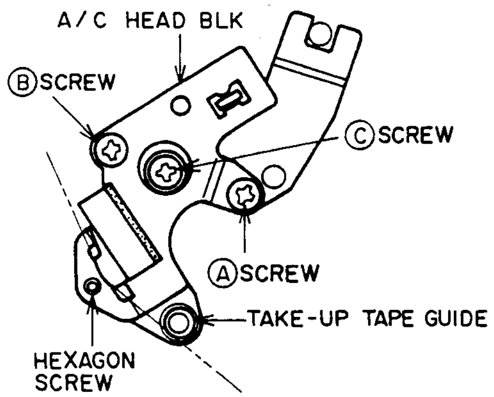
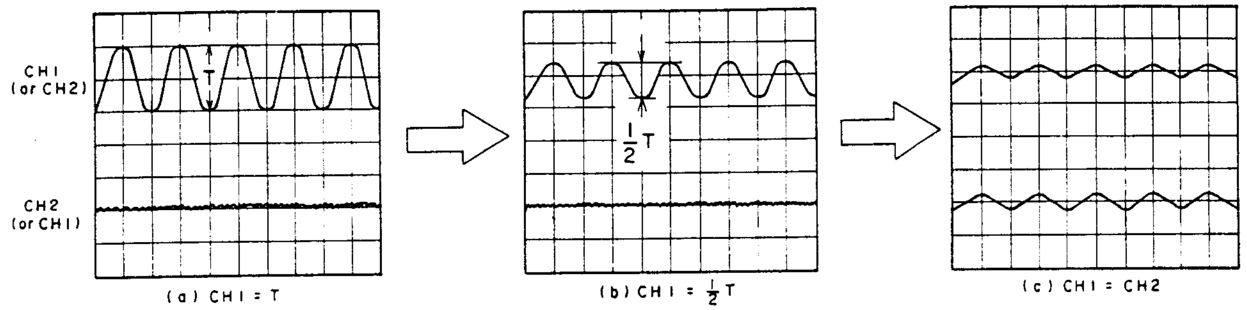

A/C HEAD BLK
ⒷSCREW
ⒸSCREW
ⒶSCREW
TAKE-UP TAPE GUIDE
HEXAGON SCREW

Fig. 4-13

4-3-2. Height adjustment

1) Play back test tape TF-526HH (AT-751788).
2) Connect an oscilloscope's CH-1 to the AUDIO OUT terminal on the rear panel and CH-2 to TP301 (CTL OUT) on the MAIN (A) PCB.
3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2, whichever has an output signal as shown in Fig. 4-14.
   Then set both of the oscilloscope's channels to 100 mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.
4) Slightly turn the Ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 4-1.
5) Adjust the head azimuth again. (Turning the hexagon screw, or Ⓐ screw, will cause head azimuth mis-alignment. Refer to 4-3-1. Azimuth adjustment.)
6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (confirm that neither of the CH-1 or CH-2 output levels exceed 100 mVp-p). If the result is not satisfactory, repeat steps 3) to 5).



(a) CH1 = T (b) CH1 = $\frac{1}{2}$T (c) CH1 = CH2

Fig. 4-14

4-3-3. Phase adjustment

1) Connect an oscilloscope's CH-1 to the TR510 emitter (ENVE) on the MAIN (A) PCB and CH-2 to TP1 (V-SWP) on the PRE AMP PCB for triggering.
2) Play back reference tape TF-530RFS (AT-751775).
3) Press the "<" or ">" cursor button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-15.
4) Loosen the © screw slightly so that the A/C HEAD PLATE can be moved with reasonable tightness.
5) Insert a sharp, flat head (—) screwdriver into the A/C HEAD BASE and Ⓐ hole as shown in Fig. 4-17.
6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig. 4-17 to obtain the maximum RF output, then tighten the © screw.

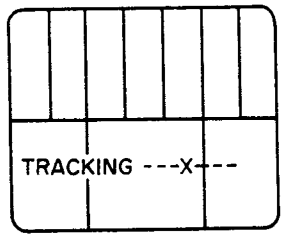


Fig. 4-15

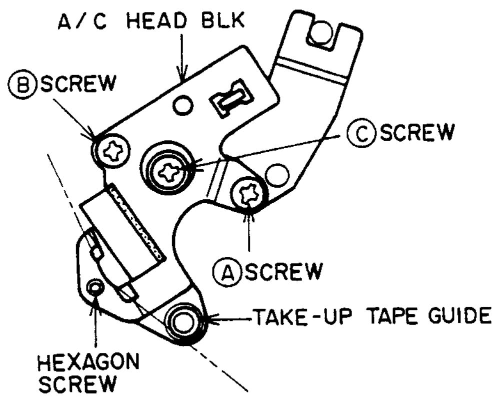

A/C HEAD BLK
Ⓑ SCREW
© SCREW
Ⓐ SCREW
TAKE-UP TAPE GUIDE
HEXAGON SCREW

Fig. 4-16

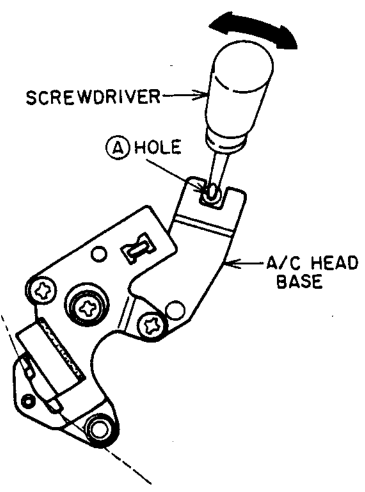

SCREWDRIVER
Ⓐ HOLE
A/C HEAD BASE

Fig. 4-17

V. ELECTRICAL ADJUSTMENT

Precautionary items prior to adjustments
1. The colour bar generator output should be 1.0 Vp-p.
2. The video output terminal should be terminated with 75 ohms (connect dummy load or 75 ohms input TV).

The following test tapes are required.

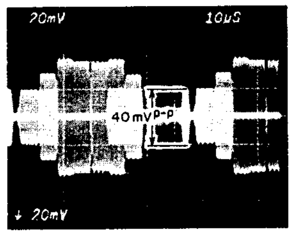
Test tape	Parts No.
TF-527BL	AT-711880
TF-530RFS	AT-751775
TF-532CBS	AT-751360
TF-553AT	AT-751785

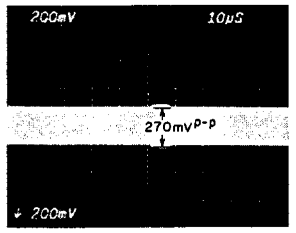
STEP | ADJUSTMENT ITEM
1. MODE and INPUT SIGNAL/TEST TAPE
2. TEST POINT and ADJ part
3. REMARKS (•) & RESULT (∗)

ADJ. part →
Test point →

6 VIDEO REC CURRENT

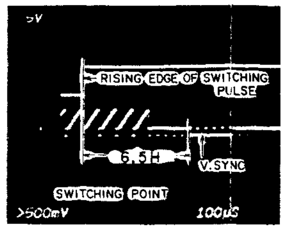
1. "REC", PAL colour bar signal
2. P2 (REC.CURR) ① pin, ② pin & VR1 (REC-CHROMA), VR2 (REC-Y)
3. • Connect an oscilloscope's CH-1 to P2 (REC.CURR) ① pin and CH-2 to ② pin.
   • Set the oscilloscope's display mode to "ADD" mode and CH-2 polarity to "INVERTED". (Make sure to set the oscilloscope's "volt/div" SW position where the waveform is not distorted and CH-2 position should be the same as CH-1.)
   • Turn the VR2 (REC-Y) fully, counterclockwise.
   ∗ Adjust VR1 (REC-CHROMA) so that the chroma REC current becomes 40 mVp-p at the burst signal area.
   ∗ Disconnect the input signal, then adjust VR2 (REC-Y) so that the Y REC current becomes 270 mVp-p.





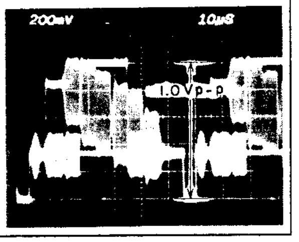
1 PB SWITCHING POINT

1. "PB", test tape TF-530RFS
2. TP1 (SWP), VIDEO OUT & VR301 (SW.POINT)
3. • Connect an oscilloscope's CH-1 to TP1 (SWP) for triggering and CH-2 to VIDEO OUT.
   ∗ Adjust VR301 so that the switching point is positioned 6.5 H from the V-SYNC left edge as shown.



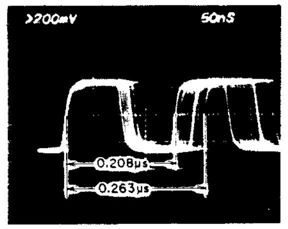
7 VIDEO PB LEVEL

1. "REC" → "PB", PAL colour bar signal
2. VIDEO OUT & VR404 (PB LEVEL)
3. • Connect an oscilloscope to VIDEO OUT
   • Make a recording on the tape, then play it back
   ∗ Adjust VR404 so that the PB level becomes 1.0 Vp-p



5 CARRIER SET & DEVIATION

1. "REC", PAL colour bar signal
2. TP401 (REC.Y) & VR402 (CARRIER), VR403 (DEVIATION)
3. • Connect an oscilloscope to TP401 (REC.Y)
   ∗ VR402 (CARRIER) : 0.263 µs (3.8 MHz)
   ∗ VR403 (DEVIATION): 0.208 µs (4.8 MHz)

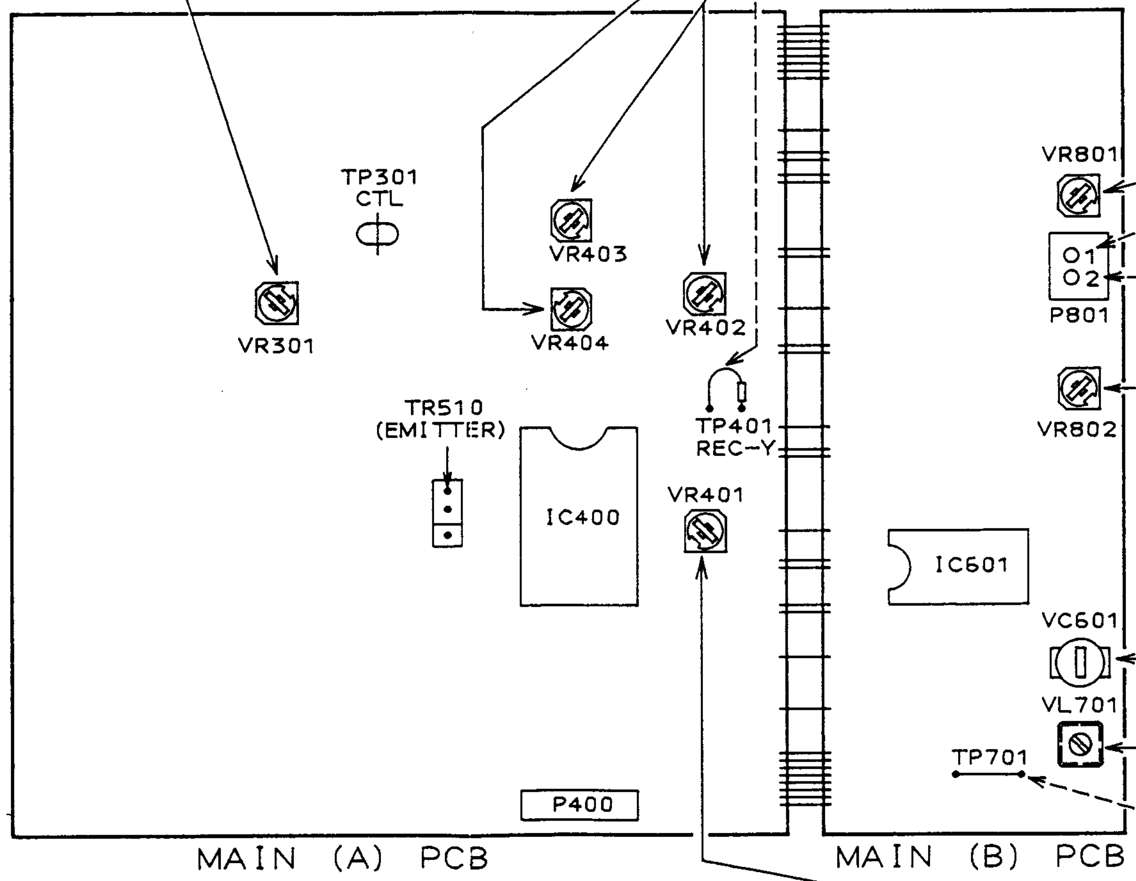


3 AUDIO REC BIAS

1. "REC", No signal input
2. P801 ① pin, ② pin & VR801
3. • Connect an AC voltmeter to P806 ① pin (GND side) and ② pin.
   (Never connect the AC voltmeter's GND to the VCR's ground.)
   ∗ Adjust VR801 so that the reading on the AC voltmeter becomes 2.4 mV

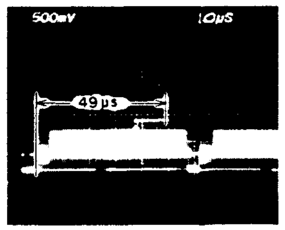
2 AUDIO PB LEVEL

1. "PB", test tape TF-527BL
2. AUDIO OUT & VR802
3. • Connect AC voltmeter to AUDIO OUT
   ∗ -5 dBs



8 CHARACTER POSITION

1. "E-E" (STOP mode), No signal input
2. VIDEO OUT, TV screen & VC601 (IMS)
3. • Press the "DISPLAY" button once on the remote control to display the elapsed tape counter.
   • Connect an oscilloscope to VIDEO OUT
   ∗ Adjust VC601 (IMS) so that the right end of the IMS signal becomes 49 us from the H-SYNC as shown.



ON THE TV SCREEN

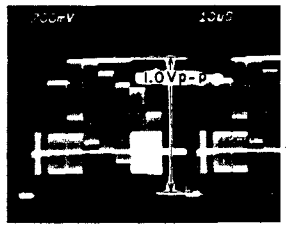
10 ENVELOPE DETECT (I-HQ)

(This adjustment should be performed in the "TEST" mode.)
To set the VCR to the "TEST MODE", press and hold both the "POWER" and "EJECT" buttons on the front panel, then plug in the AC power cord.
The TEST MODE can be cancelled by disconnecting the AC power cord or simply by pressing the RESET button on the front panel.

1. "REC" → "PB", PAL colour bar signal
2. FL display & VR3
3. • Record the PAL colour bar signal on the test tape TF-553AT and then play it back.
   • Observe the number which is displayed on the minute part of the FL display.
   ∗ Adjust the VR3 so that the number displayed on the FL display becomes "91".

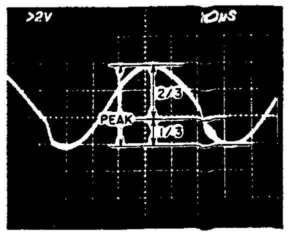
4 VIDEO E-E LEVEL

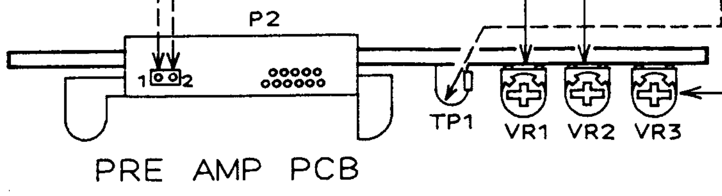
1. "E-E" (STOP mode), PAL colour bar signal
2. VIDEO OUT & VR401 (E-E LEVEL)
3. • Connect an oscilloscope to VIDEO OUT.
   ∗ 1.0 Vp-p



9 P/S AUTO SENSITIVITY (EM/EDG/EOG/EOG-V ONLY)

1. "E-E"(STOP mode),SECAM colour bar signal
2. TP701 (P/S SENS), VL701 (P/S SENS)
3. • Connect an oscilloscope to TP701 (P/S SENS)
   ∗ Adjust the VL701 so that the distorted point of the waveform becomes 1/3 from the bottom, as shown.





VI. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref.No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

The available PC Board Blocks are listed separately.

b) PC Board

6. MAIN PC BOARD

Ref.No.	Part No.	Description	
IC1	EI-324536	IC HD14049BP	
IC2	EI-336801	IC MB8841-564M	
C1A	EC-338399	C MMY V 223M 250AC	[U.E,B,S]
C1B	EC-350949	C MMY V 223M 250DC	[J]
C1C	EC-338397	C MMY V 223M 125AC	[C,A]
X1	EI-318384	OSC X'TAL NC-18C	

Symbols for primary destination

[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universal Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (Germany)
[J] : JPN (Japan) [Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

6-1. MODEL VS-F260EDG/EM/EOH/ES, F265EOH, F275EOH, F280EOH, F290EOH

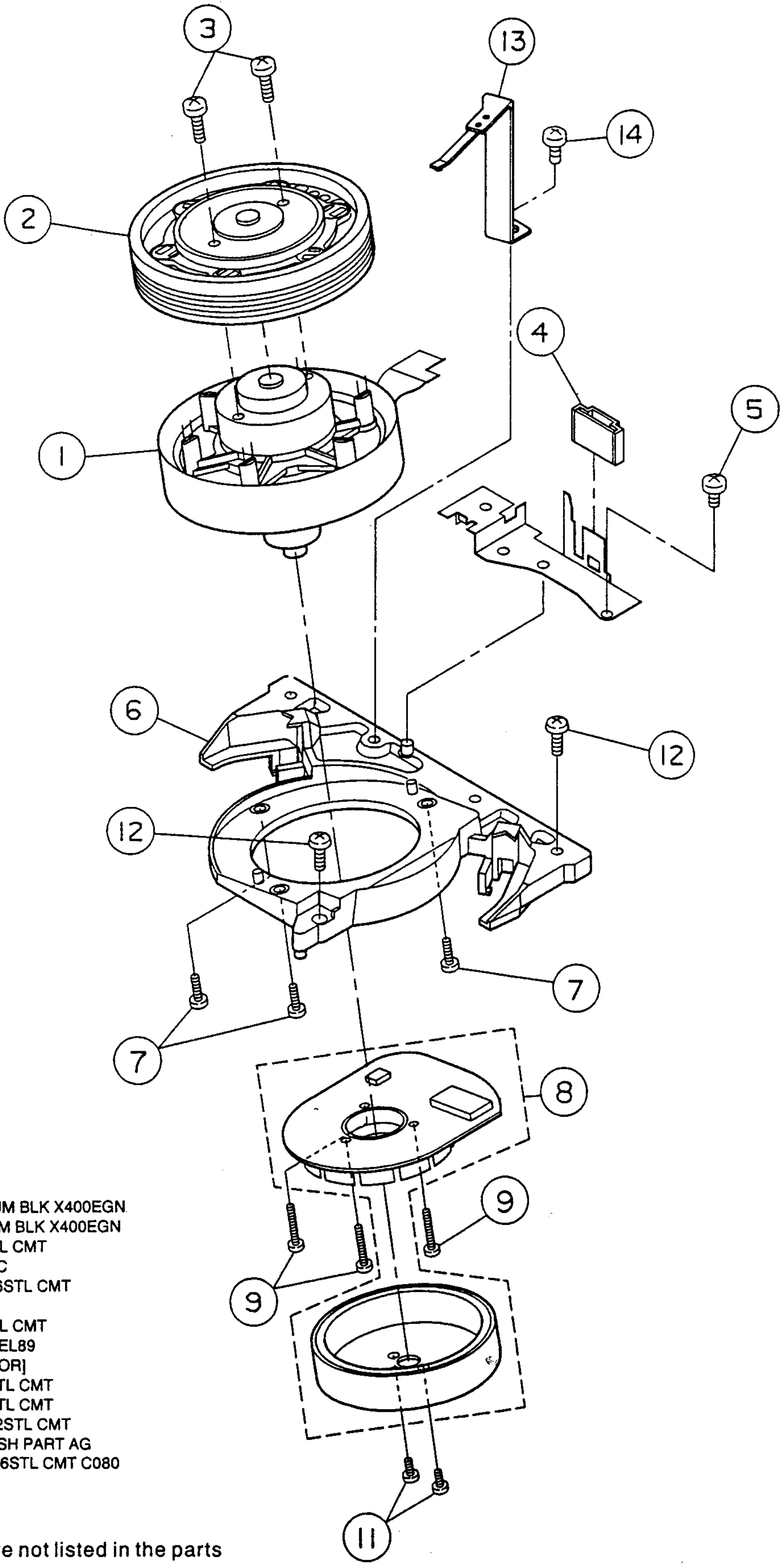
1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1038A010A	REMOCON BLK RC-V250E [EXCEPT 275/290EOH]
2	AV-B1042A010C	REMOCON BLK RC-V252E (G) [275/290EOH]
3	BB-V1130A020H	MECHA DECK BLK F260EA
4	BL-V1102A140A	ARM LOADING BLK 425EA
5	BL-V1102A050A	TENSION ARM BLK 425EA
6	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
7	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
8	BM-387503J	MOTOR PART [LOADING MOTOR]
9	*BT-403874J	TRANS POW V1130 EDG [EDG]
10	*BT-403251J	TRANS POW V1130 EM [EM]
11	*BT-403873J	TRANS POW V1130 EO [EOH]
12	*BT-404028J	TRANS POW V1130 ES [ES]
13	BV-V1102A150A	CASSETTE LOAD BLK 425EA
14	BV-V1102A070A	LEADER S BLK 425EA
15	BV-V1102A080A	LEADER T BLK 425EA
16	BV-V1123A410A	LOWER DRUM BLK X400EGN
17	BV-403411J	RF CONVERTER MDLK6B734A ES [ES]
18	BV-403409J	RF CONVERTER MDLK6D755A EO [EOH]
19	BV-403408J	RF CONVERTER MDLK6E753A EDG [EDG]
20	BV-387611J	RF CONVERTER YAA21-0454 EV [EM]
21	BV-V1123A420A	UPPER DRUM BLK X400EGN
22	BV-403237J	VIF UNIT KX EDG [EDG]
23	BV-403239J1	VIF UNIT KX EM [EM]
24	BV-403240J1	VIF UNIT KX EOH [EOH]
25	BV-403242J1	VIF UNIT KX ES [ES]
26	EA-387496J	PC (#) SENSOR
27	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
28	EC-408376J	C EC V CUT KMG 102M 50.0DC
29	EC-408377J	C EC V CUT KMG 222M 50.0DC
30	EC-408426J	C EC V F05 LXF8 121M 50.0DC
31	EC-403880J	C EC V T05 LXF8 221M 25.0DC
32	EC-403878J	C EC V T05 LXF8 271M 16.0DC
33	EC-404197J	C EC V T05 SXE8 330M 80.0DC
34	ED-390011J	D LED GL451 INFRARED [D1]
35	ED-390012J	D LED GL4800 INFRARED [D2]
36	ED-403450J	D LED SE303ARF-C INFRARED
37	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A
38	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
39	ED-386031J	D SILICON CHIP MA110-TW
40	*ED-379298	D SILICON DBA20B 100/2.0A
41	ED-366443	D SILICON H MA700FA5 F10
42	ED-307572	D SILICON H 1SS131
43	ED-401046J	D SILICON RL104F-E T26 400/1A
44	ED-511907	D SILICON 1N4002 100/1.0A
45	ED-391005J	D ZENER H HZS12B1
46	ED-408807J	D ZENER H HZS12C3
47	ED-397233J	D ZENER H HZS5C3
48	ED-387919J	D ZENER H HZS6A1L
49	ED-405603J	D ZENER H MTZJ10B T26 [EOH]
50	ED-405373J	D ZENER H MTZJ16A T26
51	ED-403267J	D ZENER H MTZJ3.3B T26
52	ED-405524J	D ZENER H MTZJ36A T26
53	ED-405604J	D ZENER H MTZJ4.3C T26 [EOH]
54	ED-403724J	D ZENER H UTZJ10A
55	*ED-404029J	D ZENER H UTZJ10B T26
56	ED-405264J	D ZENER H UTZJ10C
57	ED-404031J	D ZENER H UTZJ11B T26
58	ED-403948J	D ZENER H UTZJ16C T26
59	ED-403947J	D ZENER H UTZJ22C T26
60	ED-405265J	D ZENER H UTZJ36C
61	ED-404032J	D ZENER H UTZJ39A
62	ED-403732J	D ZENER H UTZJ5.6A
63	ED-403278J	D ZENER H UTZJ7.5B
64	ED-404086J	D ZENER H UTZJ7.5C
65	ED-403731J	D ZENER H UTZJ8.2C [EOH]
66	ED-403279J	D ZENER H UTZJ9.1B
67	EE-408471J	TV TUNER ENV-77890F2 SK [EDG]
68	EE-387603J1	TV TUNER TERE1-019B EO [ES]
69	EE-390143J2	TV TUNER TERE3-001C EOH [EOH]
70	EE-405638J	TV TUNER VTSS6CZ EM [EM]
71	EH-383083J	COMP R RGLE3X 103J
72	EH-403945J	COMP R RGLE9X 103J
73	EH-394838J	DL ADL-FN1344Q [EM/ES]
74	EH-390730J	DL EFD-JF124A13J
75	EH-368816	FILTER CE SAF38.0MZA70Z
76	EH-730625J	FILTER CE SAF38.9MZW70Z
77	EH-780128	FILTER CE SFE 6.5MB
78	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EDG/EM]
79	EH-373920	FILTER CE SFE5.5MB
80	EH-373921	FILTER CE SFE6.0MB
81	EH-368827	FILTER CE SFS5.5MD 5.500MHZ
82	EH-388287J	FILTER CE SFS6.5MX 6.500MHZ
83	EH-373918	FILTER CE TPS5.5MB
84	EH-729986J	FILTER CE TPS5.5MB2 [EM]
85	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ [EOH]
86	EH-373919	FILTER CE TPS6.0MB
87	EH-376338	FILTER CE TPS6.5MB
88	EH-714627	FILTER SAW SAF38.9MW70Z
89	EI-408416J1	IC MN675121 XAV4 KBXSYP5
90	EI-373981J1	IC BA10393N
91	EI-373980	IC BA15218N
92	*EI-381575J	IC BA6121
93	EI-353421	IC BA6229
94	EI-366892	IC BA7025L [EDG/EM]
95	EI-388360J	IC BA7765AS
96	EI-356457	IC BU4013B [EM/ES]
97	EI-403231J	IC CD4066BE
98	EI-403250J	IC LA7376
99	EI-403234J1	IC LA7391A
100	EI-394856J	IC LC8992
101	EI-389622J	IC L5631
102	EI-403469J	IC MM1068XS
103	EI-408408J1	IC M50933-128FP JXLCDR2
104	EI-368809	IC M51496P
105	EI-400756J	IC NJM4558L-B
106	EI-400672J	IC S-8052ALB-LE
107	EI-373955	IC S-8053ALR
108	EI-408393J	IC ST24C01B1
109	EI-200573	IC TC4053BP [EM/ES]
110	EI-376112	IC UPD6122G
111	EI-405722J	IC UPD6450CX-515

Ref.No.	Part No.	Description
112	EI-408391J1	IC UPD75217CW-146 JBXOPP2
113	EI-403451J	OSC CE CSB1200J 1.200MHZ
114	EI-403467J	OSC CE CSB500F40 15.680KHZ
115	EI-368829	OSC CE CSB512P
116	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
117	EI-390687J	OSC CE CSU455PL 455KHZ
118	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
119	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
120	EI-368825	OSC X'TAL MX-38T 32.768KHZ
121	EI-381632J	OSC X'TAL 86686 4.433619MHZ
122	EJ-403095J	TERMINAL LCD (3) B1014
123	EM-401077J	IND FL FV496G CHARACTER
124	EM-403448J	IND LCD LF5381G ENGLISH
125	EO-408381J	COIL FIX 2 C-5344-40 560K
126	EO-388362J	COIL OSC 1 V1102
127	*EQ-400153J	RELAY POW AG2013 1TR 12V
128	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J
129	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
130	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
131	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
132	*ER-405441J	R FUSE V T05 RF25SCVTP1/4WR27K
133	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
134	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K [EOH]
135	*ER-400689J	R FUSE V T05 RF25SCVTP1/4WR68K
136	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
137	ER-403405J	R OMF H S12 FS 1W R75J
138	ER-393768J	R OMF H S15 FS 2W 270J
139	ES-373099	SW LEAF MTS10110MPC1
140	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
141	ES-408404J	SW TACT EVQ 235 07K T05 [EXCEPT 265/290 EOH]
142	ES-408405J	SW TACT EVQ 235 09K T05 [265/290 EOH]
143	ES-349474	SW TACT SKHHAM004A
144	ET-381637J2	DETECTOR GP1U521X
145	ET-713614	TR CHIP 2SA1235 E,F
146	ET-725820J	TR CHIP 2SC2735J
147	ET-356336	TR DTA114ES
148	ET-363953	TR DTA114TS [EM/ES]
149	ET-360646	TR DTA143ES [EM/ES]
150	ET-354415	TR DTA144ES
151	ET-373985	TR DTA144TS
152	ET-353897	TR DTC114ES
153	ET-360399	TR DTC114TS
154	ET-354364	TR DTC143TS
155	ET-354414	TR DTC144ES
156	ET-361490	TR PHOTO PN268 [TR1]
157	ET-390010J	TR PHOTO PT4800 [TR2]
158	ET-390009J	TR PHOTO PT493F [TR4]
159	ET-364040	TR UN421D
160	ET-353899	TR 2SA1317 S,T,U
161	ET-389803J	TR 2SA933S R,S
162	*ET-366365	TR 2SB1185 E,F
163	ET-388338J	TR 2SB1425 S,E
164	ET-356817	TR 2SB891 Q,R
165	ET-400218J	TR 2SC1740S R,S
166	ET-375777	TR 2SC2926S P,Q
167	ET-397160J	TR 2SC3330 R,S,T,U,V
168	*ET-404195J	TR 2SC4486 S,T T05
169	ET-366168	TR 2SD1292 Q,R
170	*ET-381175J	TR 2SD1856
171	*ET-391025J	TR 2SD2012
172	ET-405622J	TR 2SD2061 E,F [EOH]
173	ET-370819	TR.CHIP 2SC3052
174	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
175	HE-390013J	HEAD E HVFME0020A
176	HR-405340J	HEAD COMBO HVMZA1121A
177	MB-387289J	BELT CAPSTAN
178	MI-387294J	IDLER PART
179	ML-391745J3	ARM DAMPER
180	ML-387350J1	ARM LID OPENER
181	ML-387423J	ARM LOADING BRAKE
182	ML-387277J3	ARM REVIEW PART
183	ML-387402J1	LEVER TRIGGER
184	ML-387316J	MAIN BRAKE (S) PART
185	ML-387318J	MAIN BRAKE (T) PART
186	ML-387321J	REVIEW BRAKE PART
187	ML-387324J1	SLIDER BRAKE PART
188	ML-404944J	SLIDER TRIGGER (2)
189	MP-404852J	PINCH ROLLER (2) PART
190	MR-387406J	HOLDER THRUST WORM
191	MR-391968J	PULLEY TRIGGER (2)
192	MR-387286J1	ROLLER IMPEDANCE
193	MT-390954J1	DISK (2) PART
194	MZ-387298J3	DISK CLUTCH PART
195	MZ-387331J	GEAR CAM SLIDER
196	MZ-387335J	GEAR EJECT
197	MZ-387333J	GEAR FRONT LOADING
198	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
199	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
200	MZ-387332J	GEAR WORM WHEEL

HEAD DRUM BLOCK

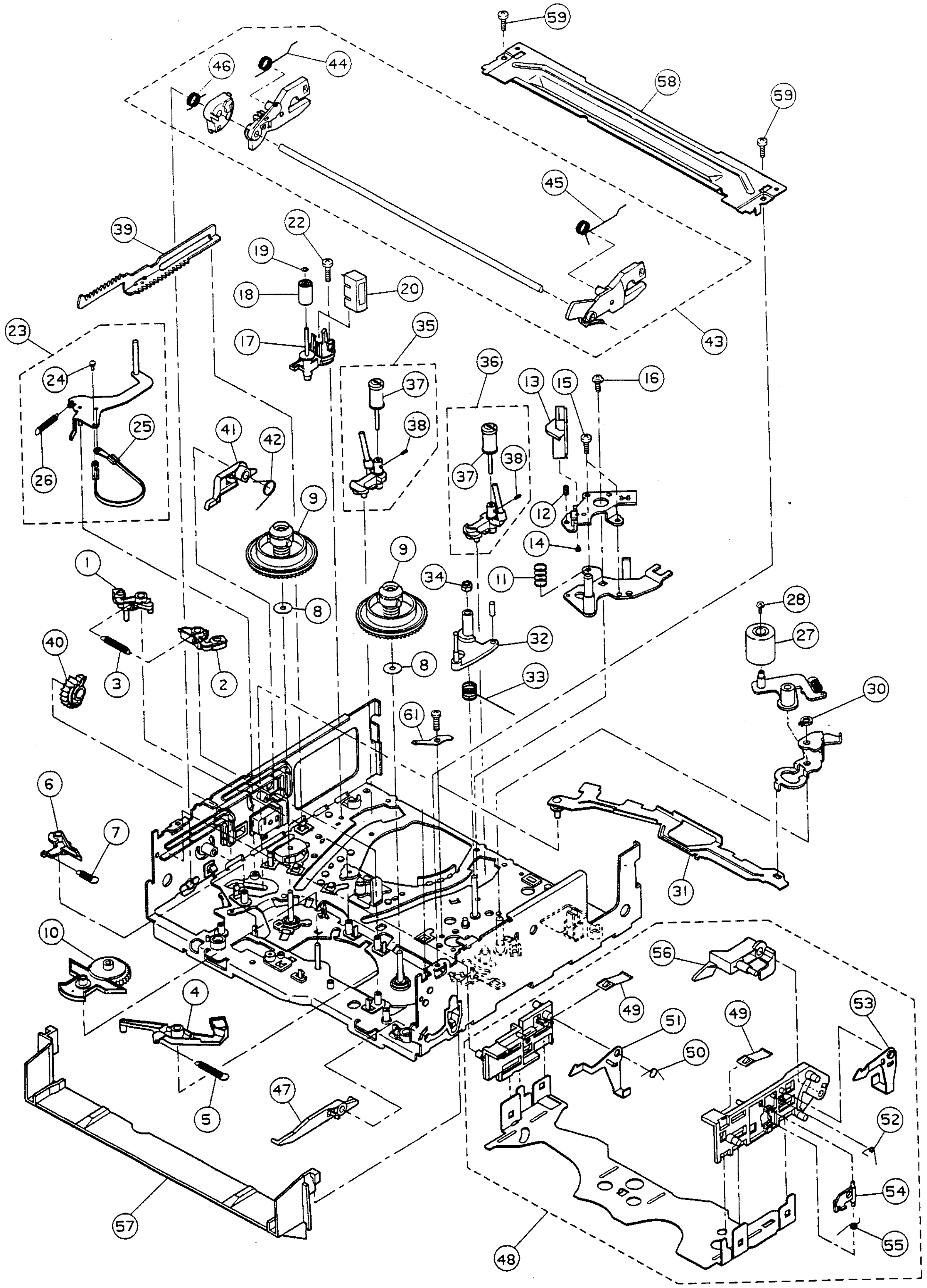


2. HEAD DRUM BLOCK

Ref.No.	Part No.	Description
1	BV-V1123A410A	LOWER DRUM BLK X400EGN
2	BV-V1123A420A	UPPER DRUM BLK X400EGN
3	ZS-321298	BID30X08STL CMT
4	SZ-387388J	HOLDER FPC
5	ZS-358936	ST BID30X06STL CMT
6	MA-387474J3	BASE DRUM
7	ZS-563444	BID26X08STL CMT
8	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
9	ZS-467796	PAN26X12STL CMT
11	ZS-379350	PAN30X06STL CMT
12	ZS-336714	ST BID30X12STL CMT
13	VT-401282J	EARTH BRUSH PART AG
14	ZS-344754	ST PAN30X06STL CMT C080

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

MECHA BLOCK (1)



3. MECHA BLOCK (1)

Ref.No.	Part No.	Description
1	ML-387316J	MAIN BRAKE (S) PART
2	ML-387318J	MAIN BRAKE (T) PART
3	ZG-387320J	SP PULL MAIN BRAKE
4	ML-387321J	REVIEW BRAKE PART
5	ZG-387323J	SP PULL REVIEW BRAKE
6	ML-387423J	ARM LOADING BRAKE
7	ZG-387467J	SP PULL LOADING BRAKE
8	ZW-389814J	PW31X110X050PSL
9	MT-390954J1	DISK (2) PART
10	MI-387294J	IDLER PART
11	ZG-387438J1	SP PUSH A/C
12	ZG-373900	6SET30X080SCM PKR CP
13	HR-405340J	HEAD COMBO HVMZA1121A
14	ZS-404844J	PAN20X02STL BZN PS1
15	ZS-321298	BID30X08STL CMT
16	ZS-344754	ST PAN30X06STL CMT C080
17	MZ-402760J1	HOLDER FE HEAD PART B
18	MR-387286J1	ROLLER IMPEDANCE
19	ZW-374445	SLIT W17X032X025PSL
20	HE-390013J	HEAD E HVFME0020A
22	ZS-336714	ST BID30X12STL CMT
23	BL-V1102A050A	TENSION ARM BLK 425EA
24	SZ-407187J2	HOLDER LEVER TENSION (2)
25	ML-390768J4	TENSION BAND PART
26	ZG-387272J	SP PULL TENSION
27	MP-404852J	PINCH ROLLER (2) PART
28	ZS-464703	BID20X04STL CMT
30	ZW-332843	RETAINING RING GRIP 380STL ACP
31	ML-387431J1	SLIDER PINCH PART
32	ML-387277J3	ARM REVIEW PART
33	ZG-387282J	SP TORSION REVIEW
34	ZW-401776J	NUT REVIEW
35	BV-V1102A070A	LEADER S BLK 425EA
36	BV-V1102A080A	LEADER T BLK 425EA
37	VT-387394J1	GUIDE ROLLER D8 PART
38	ZS-374458	6SET20X030SCM PKR FP
39	ML-387428J	SLIDER FRONT LOADING
40	MZ-387335J	GEAR EJECT
41	ML-391745J3	ARM DAMPER
42	ZG-395567J	SP TORSION ARM DAMPER
43	BL-V1102A140A	ARM LOADING BLK 425EA
44	ZG-387417J	SP TORSION LOAD (S)
45	ZG-387418J	SP TORSION LOAD (T)
46	ZG-392831J	SP TORSION JOINT (2)
47	ML-387350J1	ARM LID OPENER
48	BV-V1102A150A	CASSETTE LOAD BLK 425EA
49	ZG-387348J1	SP PLATE HOLDER
50	ZG-387421J	SP TORSION DAMPER (S)
51	ML-387345J	LEVER DAMPER (S)
52	ZG-388290J1	SP TORSION DAMPER (T)
53	ML-387346J	LEVER DAMPER (T)
54	ML-387344J	LEVER LOCK RELEASE
55	ZG-387420J1	SP TORSION RELEASE
56	ML-387349J2	ARM SHUTTER
57	SE-395554J	GUIDE FRONT (2)
58	MZ-406134J	PLATE UPPER (2)
59	ZS-358936	ST BID30X06STL CMT
61	ZG-392294J	SP PLATE EARTH
64	BB-V1130A020H	MECHA DECK BLK F260EA

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

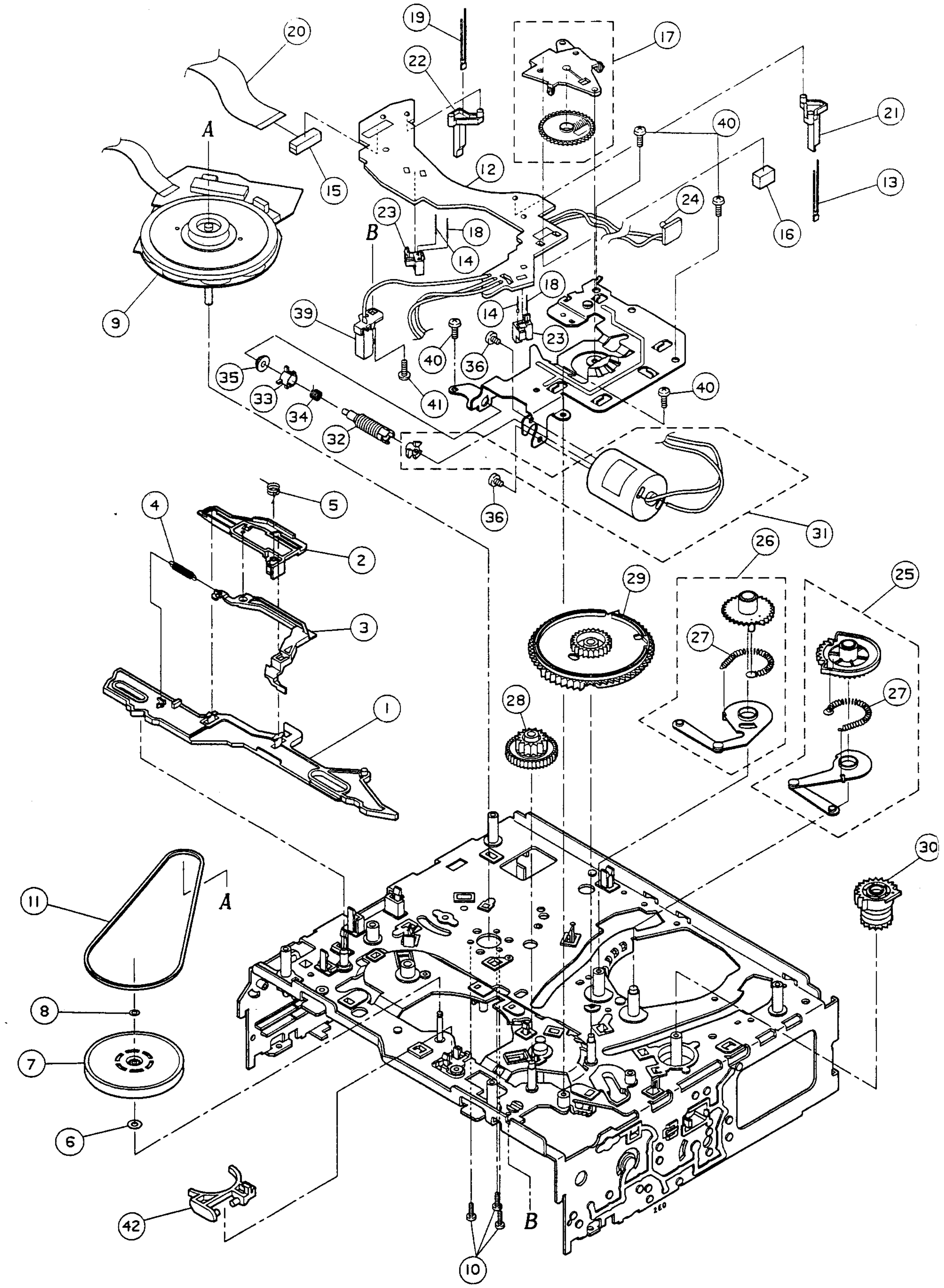
4. MECHA BLOCK (2)

Ref.No.	Part No.	Description
1	ML-387324J1	SLIDER BRAKE PART
2	ML-404944J	SLIDER TRIGGER (2)
3	ML-387402J1	LEVER TRIGGER
4	ZG-387468J	SP PULL SLIDER
5	ZG-387403J	SP TORSION COUPLING
6	ZW-389923J	PW26X060X050PSL
7	MZ-387298J3	DISK CLUTCH PART
8	ZW-387492J	SLIT W21X040X050PSL
9	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
10	ZS-365149	PT BID26X06STL CMT
11	MB-387289J	BELT CAPSTAN
12	EA-387496J	PC (#) SENSOR
13	ED-390011J	D LED GL451 INFRARED [D1]
14	ED-390012J	D LED GL4800 INFRARED [D2]
15	EJ-387497J	SOCKET HOUSING 5062-30-10-13 [PS1]
16	EJ-381837J	SOCKET 174074-5 5P [P1]
17	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
18	ET-390010J	TR PHOTO PT4800 [TR2]
19	ET-390009J	TR PHOTO PT493F [TR4]
20	EW-389313J	CORD FFC P1.25 L=120 13P [WP1]
21	MZ-387430J	HOLDER D-LED
22	MZ-387445J	HOLDER S SENSOR
23	MZ-387446J	HOLDER PHOTO SENSOR
24	ET-361490	TR PHOTO PN268 [TR1]
25	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
26	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
27	ZG-387413J1	SP PULL TOGGLE
28	MZ-387332J	GEAR WORM WHEEL
29	MZ-387331J	GEAR CAM SLIDER
30	MZ-387333J	GEAR FRONT LOADING
31	BM-387503J	MOTOR PART [LOADING MOTOR]
32	MZ-387330J	GEAR WORM PART
33	MR-391968J	PULLEY TRIGGER (2)
34	ZG-387443J	SP TRIGGER
35	MR-387406J	HOLDER THRUST WORM
36	ZS-425981	BID30X03STL CMT
39	ES-373099	SW LEAF MTS10110MPC1
40	ZS-389950J	PT BID26X10STL CMT
41	ZS-358936	ST BID30X06STL CMT
42	ML-387311J2	ARM COUPLING

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

MECHA BLOCK (2)



5. P.C BOARD BLK

Ref.No.	Part No.	Description
1A	BA-V1130A600B	PC (#) MAIN (PAL) BLK F220EDG [EDG]
1B	BA-V1130A600D	PC (#) MAIN (PAL) BLK F220EM [EM]
1C	BA-V1130A600G	PC (#) MAIN (PAL) BLK F200EOH [260/280/290EOH]
1D	BA-V1130A600J	PC (#) MAIN (PAL) BLK F220EOH [265/275EOH]
1E	BA-V1130A600H	PC (#) MAIN (PAL) BLK F240ES [ES]
2A	BA-V1130A610C	PC PRE AMP BLK F220EDG [EDG/EOH]
2B	BA-V1130A610B	PC PRE AMP BLK F220EM [EM]
2C	BA-V1130A610D	PC PRE AMP BLK F240ES [ES]
3A	BA-V1146A630C	PC OPERATION (A) BLK F260EDG [EDG]
3B	BA-V1146A630G	PC OPERATION (A) BLK F260EM [EM]
3C	BA-V1146A630L	PC OPERATION (A) BLK F290EOH [290EOH]
3D	BA-V1146A630M	PC OPERATION (A) BLK F260EOH [260/280EOH]
3E	BA-V1146A640K	PC OPERATION (A) BLK F265EOH [265EOH]
3F	BA-V1146A640L	PC OPERATION (A) BLK F275EOH [275EOH]
3G	BA-V1146A635A	PC OPERATION (A) BLK F260ES [ES]
4A	BA-V1130A500A	PC POWER BLK F220EDG [EDG/ES]
4B	BA-V1130A510A	PC (#) POWER EM BLK F220EM [EM]
4C	BA-V1132A500C	PC (#) POWER EO BLK F200EOH [EOH]

PC (#) MAIN (PAL) BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN (A) P.C BOARD
- MAIN (B) P.C BOARD

PC (#) POWER EM BLK CONSISTS OF FOLLOWING P.C BOARD.

- POWER SUPPLY (1) P.C BOARD
- POWER SUPPLY (2) P.C BOARD
- DIODE P.C BOARD

PC (#) POWER EO BLK CONSISTS OF FOLLOWING P.C BOARD.

- POWER SUPPLY P.C BOARD
- DIODE P.C BOARD

6. MAIN (A) P.C BOARD

Ref.No.	Part No.	Description
C369	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131 [EOH]
D6	ED-403731J	D ZENER H UTZJ8.2C [EOH]
D7	ED-307572	D SILICON H 1SS131 [EOH]
D8	ED-387919J	D ZENER H HZS6A1L
D12	ED-405603J	D ZENER H MTZJ10B T26 [EOH]
D13	ED-405604J	D ZENER H MTZJ4.3C T26 [EOH]
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-397233J	D ZENER H HZS5C3
D205	ED-403267J	D ZENER H MTZJ3.3B T26
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D212	ED-511907	D SILICON 1N4002 100/1.0A
D213	ED-511907	D SILICON 1N4002 100/1.0A
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-404086J	D ZENER H UTZJ7.5C
D304	ED-403724J	D ZENER H UTZJ10A
D305	ED-307572	D SILICON H 1SS131
D306	ED-307572	D SILICON H 1SS131
D307	ED-307572	D SILICON H 1SS131
D308	ED-307572	D SILICON H 1SS131
D309	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D403	ED-307572	D SILICON H 1SS131 [EM/ES]
D405	ED-307572	D SILICON H 1SS131
D406	ED-366443	D SILICON H MA700FA5 F10
D501	ED-307572	D SILICON H 1SS131 [EXCEPT ES]
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D505	ED-307572	D SILICON H 1SS131
D506	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
D508	ED-307572	D SILICON H 1SS131 [EXCEPT ES]
DL500	EH-390730J	DL EFD-JF124A13J
DL501	EH-394838J	DL ADL-FN1344Q [EM/ES]
FR201	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
FR202	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K [EOH]
FR350	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
FR501	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
IC1	EI-389622J	IC L5631
IC101	EI-403231J	IC CD4066BE
IC201	EI-400756J	IC NJM4558L-B
IC301	EI-408416J1	IC MN675121 XAV4 KBXSYP5
IC302	EI-353421	IC BA6229
IC303	EI-373980	IC BA15218N
IC400	EI-403234J1	IC LA7391A
IC401	EI-394856J	IC LC8992
IC402	EI-373981J1	IC BA10393N
IC403	EI-356457	IC BU4013B [EM/ES]
L101	EO-345881	COIL FIX 1 EL0606SKI 101
L103	EO-356722	COIL FIX 1 LAP02 F05 6R8
L301	EO-381196J	COIL FIX 1 EL0405SKI 470
L302	EO-345881	COIL FIX 1 EL0606SKI 101
L401	EO-354600	COIL FIX 1 LAP02 F05 101
L402	EO-357508	COIL FIX 1 LAP02 F05 151
L403	EO-381192J	COIL FIX 1 EL0405SKI 270
L404	EO-345880	COIL FIX 1 EL0606SKI 820
L405	EO-354600	COIL FIX 1 LAP02 F05 101
L410	EO-345874	COIL FIX 1 EL0606SKI 330
L470	EO-356722	COIL FIX 1 LAP02 F05 6R8
L472	EO-345880	COIL FIX 1 EL0606SKI 820

Ref.No.	Part No.	Description
L474	EO-388161J	COIL FIX 1 EL0405SKI 560K
L500	EO-345880	COIL FIX 1 EL0606SKI 820J
L501	EO-353900	COIL FIX 1 LAP02 F05 150K
L502	EO-345880	COIL FIX 1 EL0606SKI 820J [EM/ES]
L503	EO-353900	COIL FIX 1 LAP02 F05 150K [EM/ES]
L504	EO-353900	COIL FIX 1 LAP02 F05 150K [EM/ES]
L505	EO-345880	COIL FIX 1 EL0606SKI 820J
L506	EO-345880	COIL FIX 1 EL0606SKI 820J
L507	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L508	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J
L509	EO-345880	COIL FIX 1 EL0606SKI 820J
L510	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L511	EO-381195J	COIL FIX 1 EL0405SKI 331K
L512	EO-381197J	COIL FIX 1 EL0405SKI 471K
L570	EO-345880	COIL FIX 1 EL0606SKI 820J
L590	EO-387802J	COIL FIX 1 EL0405SKI 330K [EM/ES]
MD1A	BV-403408J	RF CONVERTER MDLK6E753A EDG [EDG]
MD1B	BV-387611J	RF CONVERTER YAA21-0454 EV [EM]
MD1C	BV-403409J	RF CONVERTER MDLK6D755A EO [EOH]
MD1D	BV-403411J	RF CONVERTER MDLK6B734A ES [ES]
J101	EJ-387614J	PIN J T6353-ABCB YL BK 4P [EDG/EM/ES]
J102	EJ-387613J	SOCKET M1812 21P [EOH]
R214	ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-375777	TR 2SC2926S P,Q
TR3	ET-353899	TR 2SA1317 S,T,U
TR4	ET-353899	TR 2SA1317 S,T,U
TR5	ET-353899	TR 2SA1317 S,T,U
TR6	ET-353899	TR 2SA1317 S,T,U [EOH]
TR7	ET-353899	TR 2SA1317 S,T,U
TR8	ET-354414	TR DTC144ES
TR9	ET-354414	TR DTC144ES
TR10	ET-354414	TR DTC144ES [EOH]
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U [EXCEPT EOH]
TR14	ET-397160J	TR 2SC3330 R,S,T,U,V [EOH]
TR15	ET-353897	TR DTC114ES
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V [EOH]
TR17	ET-397160J	TR 2SC3330 R,S,T,U,V
TR18	ET-397160J	TR 2SC3330 R,S,T,U,V
TR19	ET-354414	TR DTC144ES [EM/EOH]
TR20	ET-405622J	TR 2SD2061 E,F [EOH]
TR101	ET-354414	TR DTC144ES
TR102	ET-356336	TR DTA114ES
TR103	ET-354414	TR DTC144ES
TR104	ET-353899	TR 2SA1317 S,T,U
TR105	ET-353899	TR 2SA1317 S,T,U
TR107	ET-397160J	TR 2SC3330 R,S,T,U,V
TR108	ET-356336	TR DTA114ES [EOH]
TR109	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-356336	TR DTA114ES
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-388338J	TR 2SB1425 S,E
TR210	ET-405622J	TR 2SD2061 E,F
TR301	ET-354414	TR DTC144ES
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR303	ET-363953	TR DTA114TS [EM/ES]
TR304	ET-354415	TR DTA144ES
TR306	ET-354414	TR DTC144ES
TR307	ET-373985	TR DTA144TS
TR308	ET-373985	TR DTA144TS
TR309	ET-373985	TR DTA144TS
TR310	ET-354414	TR DTC144ES

Ref.No.	Part No.	Description
TR312	ET-354415	TR DTA144ES
TR401	ET-356336	TR DTA114ES
TR404	ET-354364	TR DTC143TS
TR406	ET-397160J	TR 2SC3330 R,S,T,U,V
TR407	ET-353899	TR 2SA1317 S,T,U
TR408	ET-354414	TR DTC144ES
TR409	ET-360399	TR DTC114TS
TR410	ET-354414	TR DTC144ES
TR414	ET-388338J	TR 2SB1425 S,E
TR415	ET-353899	TR 2SA1317 S,T,U
TR417	ET-360399	TR DTC114TS
TR421	ET-364040	TR UN421D
TR423	ET-356336	TR DTA114ES
TR425	ET-354414	TR DTC144ES [EM/ES]
TR470	ET-353899	TR 2SA1317 S,T,U
TR471	ET-353899	TR 2SA1317 S,T,U
TR501	ET-353897	TR DTC114ES
TR502	ET-360646	TR DTA143ES [EM/ES]
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR504	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR505	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V
TR507	ET-397160J	TR 2SC3330 R,S,T,U,V
TR508	ET-356336	TR DTA114ES
TR509	ET-397160J	TR 2SC3330 R,S,T,U,V
TR510	ET-397160J	TR 2SC3330 R,S,T,U,V
TR511	ET-397160J	TR 2SC3330 R,S,T,U,V
TR512	ET-397160J	TR 2SC3330 R,S,T,U,V
TR513	ET-356336	TR DTA114ES [EXCEPT ES]
TR514	ET-354414	TR DTC144ES [EXCEPT ES]
TR515	ET-397160J	TR 2SC3330 R,S,T,U,V
TR570	ET-397160J	TR 2SC3330 R,S,T,U,V
TR571	ET-397160J	TR 2SC3330 R,S,T,U,V
TR572	ET-354414	TR DTC144ES
VR301	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR401	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR402	EV-404300J	R S-FIX H T05 KVSF637T 0.1W472
VR403	EV-405659J	R S-FIX H T05 KVSF637T 0.1W682
VR404	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
WF201	EW-404138J1	CORD KX MA-POW L=225 12P
X301	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X500	EI-381632J	OSC X'TAL 86686 4.433619MHZ
1A	BV-403237J	VIF UNIT KX EDG [EDG]
1B	BV-403239J1	VIF UNIT KX EM [EM]
1C	BV-403240J1	VIF UNIT KX EOH [EOH]
1D	BV-403242J1	VIF UNIT KX ES [ES]
2A	EE-408471J	TV TUNER ENV-77890F2 SK [EDG]
2B	EE-405638J	TV TUNER VTSS6CZ EM [EM]
2C	EE-390143J2	TV TUNER TERE3-001C EOH [EOH]
2D	EE-387603J1	TV TUNER TERE1-019B EO [ES]
3A	SP-395563J	PANEL REAR JACK EDG (2) [EDG]
3B	SP-388307J	PANEL REAR JACK EA [EM]
3C	SP-387357J	PANEL REAR JACK EK [EOH]
3D	SP-388306J	PANEL REAR JACK ES [ES]

7. MAIN (B) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-307572	D SILICON H 1SS131
D603	ED-307572	D SILICON H 1SS131 [EXCEPT ES]
D801	ED-307572	D SILICON H 1SS131
FL701	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EDG/EM]
FL801	EO-388362J	COIL OSC 1 V1102
IC601	EI-405722J	IC UPD6450CX-515
IC602	EI-403469J	IC MM1068XS
IC701	EI-366892	IC BA7025L [EDG/EM]
IC702	EI-200573	IC TC4053BP [EM/ES]
IC801	EI-388360J	IC BA7765AS
L601	EO-345881	COIL FIX 1 EL0606SKI 101J
L602	EO-345876	COIL FIX 1 EL0606SKI 470J
L603	EO-351866	COIL FIX 1 LAP02 F05 330K [EXCEPT ES]
L604	EO-351866	COIL FIX 1 LAP02 F05 330K
L605	EO-345881	COIL FIX 1 EL0606SKI 101J
L701	EO-345881	COIL FIX 1 EL0606SKI 101J [EXCEPT EOH]
L702	EO-345881	COIL FIX 1 EL0606SKI 101J [EM/ES]
L801	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L802	EO-390716J	COIL FIX 1 LHL06TB T05 272J
TR601	ET-353899	TR 2SA1317 S,T,U
TR602	ET-354414	TR DTC144ES
TR603	ET-397160J	TR 2SC3330 R,S,T,U,V
TR604	ET-397160J	TR 2SC3330 R,S,T,U,V [EXCEPT ES]
TR605	ET-356336	TR DTA114ES [EXCEPT ES]
TR606	ET-356336	TR DTA114ES [EXCEPT ES]
TR607	ET-353899	TR 2SA1317 S,T,U
TR608	ET-353899	TR 2SA1317 S,T,U
TR609	ET-354414	TR DTC144ES [EXCEPT ES]
TR701	ET-397160J	TR 2SC3330 R,S,T,U,V [EXCEPT EOH]
TR702	ET-397160J	TR 2SC3330 R,S,T,U,V [EDG/EM]
TR751	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR752	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR753	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR754	ET-397160J	TR 2SC3330 R,S,T,U,V [EM/ES]
TR801	ET-397160J	TR 2SC3330 R,S,T,U,V
TR803	ET-354414	TR DTC144ES [EM/ES]
VC601	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VL701	EO-366893	COIL VARI 1 21D6 8.20MH [EDG/EM]
VR801	EV-403967J	R S-FIX V T05EVNDCAA03 0.1W332
VR802	EV-403968J	R S-FIX V T05EVNDCAA03 0.1W473
X601	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X602	EI-403467J	OSC CE CSB500F40 15.680KHZ

8. PRE-AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
IC1	EI-403250J	IC LA7376
L1	EO-376858	COIL FIX 1 LF-5.0S F05 560K
L2	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-376859	COIL FIX 1 LF-5.0S F05 8R2K
L5A	EO-381191J	COIL FIX 1 EL0405SKI 181K [ES]
L5B	EO-388088J	COIL FIX 1 EL0405SKI 151K [EXCEPT ES]
L6	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L7	EO-376603	COIL FIX 1 LF-5.0S F05 150K
L8A	EO-381193J	COIL FIX 1 EL0405SKI 271K [ES]
L8B	EO-387803J	COIL FIX 1 EL0405SKI 221K [EXCEPT ES]
L9	EO-345880	COIL FIX 1 EL0606SKI 820J
L10	EO-345880	COIL FIX 1 EL0606SKI 820J
L13	EO-345880	COIL FIX 1 EL0606SKI 820J
L14	EO-376860	COIL FIX 1 LF-5.0S F05 820K
PS1	EJ-381075J	SOCKET HOUSING 5062-30-10-12
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-364040	TR UN421D
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-353899	TR 2SA1317 S,T,U
TR7	ET-360399	TR DTC114TS [EXCEPT ES]
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR9	ET-360399	TR DTC114TS [EM/ES]
TR10	ET-364040	TR UN421D
TR11	ET-354414	TR DTC144ES [EXCEPT ES]
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR14	ET-353899	TR 2SA1317 S,T,U
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR3	EV-405248J	R S-FIX V T05EVNDCAA03 0.1W471
WP1	EW-403256J1	CORD FFC P1.25 L=230 12P

9. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D2	ED-307572	D SILICON H 1SS131 [EOH]
D5	ED-307572	D SILICON H 1SS131 [EM/ES]
D10	ED-403279J	D ZENER H UTZJ9.1B
D11	ED-403278J	D ZENER H UTZJ7.5B
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D25	ED-307572	D SILICON H 1SS131
D26	ED-307572	D SILICON H 1SS131
D27	ED-307572	D SILICON H 1SS131
D32	ED-307572	D SILICON H 1SS131 [EOH]
D41	ED-307572	D SILICON H 1SS131 [EDG/EM]
D42	ED-307572	D SILICON H 1SS131 [EM/ES]
D43	ED-307572	D SILICON H 1SS131 [EDG/ES]
FL1	EM-401077J	IND FL FV496G CHARACTER
IB1	EH-403945J	COMP R RGLE9X 103J
IB2	EH-383083J	COMP R RGLE3X 103J
IC1	EI-408391J1	IC UPD75217CW-146 JBXOPP2
IC2	EI-408393J	IC ST24C01B1
IC3	EI-373955	IC S-8053ALR
PH1	ET-381637J2	DETECTOR GP1U521X
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
PS2	EJ-387497J	SOCKET HOUSING 5062-30-10-13
SW1A	ES-408404J	SW TACT EVQ 235 07K T05 [EXCEPT 265/290 EOH]
SW1B	ES-408405J	SW TACT EVQ 235 09K T05 [265/290 EOH]
SW2	ES-349474	SW TACT SKHHAM004A
SW3	ES-349474	SW TACT SKHHAM004A
SW4	ES-349474	SW TACT SKHHAM004A
SW5	ES-349474	SW TACT SKHHAM004A
SW6	ES-349474	SW TACT SKHHAM004A
SW7	ES-349474	SW TACT SKHHAM004A
SW8	ES-349474	SW TACT SKHHAM004A
SW9	ES-349474	SW TACT SKHHAM004A
SW12	ES-349474	SW TACT SKHHAM004A
TR1	ET-354414	TR DTC144ES
WP1	EW-394623J	CORD FFC P1.25 L=110 15P
WP2	EW-389313J	CORD FFC P1.25 L=120 13P
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-368825	OSC X'TAL MX-38T 32.768KHZ

10. VIF UNIT (EM/EOH)

Ref.No.	Part No.	Description
CF1	EH-730625J	FILTER CE SAF38.9MZW70Z
CF2	EH-373920	FILTER CE SFE5.5MB
CF3A	EH-729986J	FILTER CE TPS5.5MB2 [EM]
CF3B	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ [EOH]
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3	EO-725953J	COIL SIF DET 6F16263A2
L4	EO-714614	COIL RF 6F16115B1
L5	EO-714610	COIL RF 6F16113B1
L6	EO-387799J	COIL FIX 1 EL0405SKI 180K
L7	EO-387799J	COIL FIX 1 EL0405SKI 180K
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR51	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

11. VIF UNIT (EDG)

Ref.No.	Part No.	Description
CF1	EH-368816	FILTER CE SAF38.0MZA70Z
CF2	EH-376338	FILTER CE TPS6.5MB
CF3	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
CF4	EH-373918	FILTER CE TPS5.5MB
CF51	EH-388287J	FILTER CE SFS6.5MX 6.500MHZ
CF52	EH-368827	FILTER CE SFS5.5MD 5.500MHZ
CF53	EH-780128	FILTER CE SFE 6.5MB
IC1	EI-368809	IC M51496P
L1	EO-387782J	COIL FIX 1 EL0405SKI 2R2K
L2	EO-732831J	COIL SIF DET 6F16437A2
L3	EO-732832J	COIL AFT 6F16435A1
L4	EO-732833J	COIL TANK 7KL 6F16436A1
L5	EO-397238J	COIL FIX 1 EL0405SKI 6R8K
L6	EO-387798J	COIL FIX 1 EL0405SKI 150K
L51	EO-396361J	COIL FIX 1 EL0405SKI 8R2K
L52	EO-387803J	COIL FIX 1 EL0405SKI 221K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
Q3	ET-370819	TR.CHIP 2SC3052
Q4	ET-713614	TR CHIP 2SA1235 E,F
Q51	ET-370819	TR.CHIP 2SC3052
Q52	ET-370819	TR.CHIP 2SC3052
VR1	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
X51	EI-368829	OSC CE CSB512P

12. VIF UNIT (ES)

Ref.No.	Part No.	Description
CF1	EH-714627	FILTER SAW SAF38.9MW70Z
CF2	EH-373921	FILTER CE SFE6.0MB
CF3	EH-373919	FILTER CE TPS6.0MB
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3	EO-725954J	COIL SIF DET 6F16263A3
L4	EO-714614	COIL RF 6F16115B1
L5	EO-714610	COIL RF 6F16113B1
L6	EO-387798J	COIL FIX 1 EL0405SKI 150K
L7	EO-387798J	COIL FIX 1 EL0405SKI 150K
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR51	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

13. POWER SUPPLY P.C BOARD (EXCEPT EM)

Ref.No.	Part No.	Description
C1	EC-406634J	C EC V SXE12 222M 25.0DC
C2	EC-363490	C EC V CUT SME 222M 16.0DC
C3	EC-406635J	C EC V SXE16 222M 35.0DC
C4	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C5	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C10	EC-405612J	C EC V T05 SXE4 4R7M 50.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D6	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D7	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D8	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D9	*ED-511907	D SILICON 1N4002 100/1.0A
D10	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D11	*ED-511907	D SILICON 1N4002 100/1.0A
D12	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D13	ED-405373J	D ZENER H MTZJ16A T26
D14	ED-404032J	D ZENER H UTZJ39A
D15	ED-405524J	D ZENER H MTZJ36A T26
D16	*ED-404029J	D ZENER H UTZJ10B T26
D17	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
D18	*ED-511907	D SILICON 1N4002 100/1.0A [EXCEPT EOH]
FR1	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR2	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR3	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR4	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR5	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
TR1	*ET-381175J	TR 2SD1856
TR2	*ET-366365	TR 2SB1185 E,F
TR3	*ET-405622J	TR 2SD2061 E,F
TR4	*ET-405622J	TR 2SD2061 E,F
TR5	*ET-405622J	TR 2SD2061 E,F
TR6	*ET-391025J	TR 2SD2012
TR7	*ET-366365	TR 2SB1185 E,F

14. DIODE P.C BOARD (EOH)

Ref.No.	Part No.	Description
D1	*ED-379298	D SILICON DBA20B 100/2.0A

15. POWER SUPPLY (1) P.C BOARD (EM)

Ref.No.	Part No.	Description
C1	EC-408376J	C EC V CUT KMG 102M 50.0DC
C2	EC-408377J	C EC V CUT KMG 222M 50.0DC
C3	EC-408426J	C EC V F05 LXF8 121M 50.0DC
C4	EC-403878J	C EC V T05 LXF8 271M 16.0DC
C14	EC-408426J	C EC V F05 LXF8 121M 50.0DC
C15	EC-403878J	C EC V T05 LXF8 271M 16.0DC
C20	EC-403880J	C EC V T05 LXF8 221M 25.0DC
C23	EC-404197J	C EC V T05 SXE8 330M 80.0DC
C24	EC-404197J	C EC V T05 SXE8 330M 80.0DC
C101	*EC-389414J	C CE V DE7 B102K 400AC
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D6	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D8	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D11	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D16	ED-307572	D SILICON H 1SS131
D17	*ED-511907	D SILICON 1N4002 100/1.0A
D18	*ED-511907	D SILICON 1N4002 100/1.0A
D19	ED-404032J	D ZENER H UTZJ39A
D20	ED-405524J	D ZENER H MTZJ36A T26
D27	ED-408807J	D ZENER H HZS12C3
D28	ED-391005J	D ZENER H HZS12B1
D54	ED-307572	D SILICON H 1SS131
D55	ED-307572	D SILICON H 1SS131
D57	ED-405264J	D ZENER H UTZJ10C
D58	ED-405264J	D ZENER H UTZJ10C
D71	*ED-511907	D SILICON 1N4002 100/1.0A
D72	*ED-511907	D SILICON 1N4002 100/1.0A
D73	*ED-511907	D SILICON 1N4002 100/1.0A
D74	*ED-511907	D SILICON 1N4002 100/1.0A
D101	*ED-511907	D SILICON 1N4002 100/1.0A
D102	ED-403947J	D ZENER H UTZJ22C T26
D103	ED-307572	D SILICON H 1SS131
D104	ED-404031J	D ZENER H UTZJ11B T26
D106	ED-401046J	D SILICON RL104F-E T26 400/1A
D107	ED-403948J	D ZENER H UTZJ16C T26
D108	ED-405265J	D ZENER H UTZJ36C
D109	ED-405265J	D ZENER H UTZJ36C
FR1	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR2	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR3	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
FR4	*ER-400689J	R FUSE V T05 RF25SCVTP1/4WR68K
FR5	*ER-405441J	R FUSE V T05 RF25SCVTP1/4WR27K
FR101	*ER-400689J	R FUSE V T05 RF25SCVTP1/4WR68K
FR102	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J
L1	EO-408381J	COIL FIX 2 C-5344-40 560K
L2	EO-408381J	COIL FIX 2 C-5344-40 560K
L3	EO-408381J	COIL FIX 2 C-5344-40 560K
L4	EO-408381J	COIL FIX 2 C-5344-40 560K
L6	EO-386541J	COIL FIX 1 ELF1010SKI 101K
L9	EO-393769J	COIL FIX 1 LHL06TB T05 471K
R14	ER-393768J	R OMF H S15 FS 2W 270J
RL101	*EQ-400153J	RELAY POW AG2013 1TR 12V
TR1	*ET-366365	TR 2SB1185 E,F
TR5	*ET-366365	TR 2SB1185 E,F
TR6	ET-356817	TR 2SB891 Q,R
TR9	*ET-366365	TR 2SB1185 E,F
TR12	*ET-405622J	TR 2SD2061 E,F
TR13	*ET-366365	TR 2SB1185 E,F
TR14	ET-360399	TR DTC114TS
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
TR101	ET-389803J	TR 2SA933S R,S
TR102	ET-400218J	TR 2SC1740S R,S
TR103	ET-366168	TR 2SD1292 Q,R
TR104	ET-366365	TR 2SB1185 E,F
TR106	ET-389803J	TR 2SA933S R,S
TR107	*ET-404195J	TR 2SC4486 S,T T05

16. POWER SUPPLY (2) P.C BOARD (EM)

Ref.No.	Part No.	Description
D7	ED-405264J	D ZENER H UTZJ10C
D10	ED-307572	D SILICON H 1SS131
D50	ED-403732J	D ZENER H UTZJ5.6A
D56	ED-391005J	D ZENER H HZS12B1
IC1	*EI-381575J	IC BA6121
L10	EO-380091J1	COIL FIX 2 C-5293-01 560K
TR2	*ET-405622J	TR 2SD2061 E,F
TR3	ET-389803J	TR 2SA933S R,S
TR4	*ET-366168	TR 2SD1292 Q,R
TR7	*ET-405622J	TR 2SD2061 E,F
TR8	ET-389803J	TR 2SA933S R,S
TR50	ET-353897	TR DTC114ES

17. DIODE P.C BOARD (EM)

Ref.No.	Part No.	Description
D60	*ED-379298	D SILICON DBA20B 100/2.0A

18. SUB P.C BOARD (EM)

Ref.No.	Part No.	Description
D1	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A
D2	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A
D3	ED-403267J	D ZENER H MTZJ3.3B T26
TR1	ET-366365	TR 2SB1185 E,F
TR2	ET-397160J	TR 2SC3330 R,S,T,U,V
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V

19. FINAL ASSEMBLY BLOCK

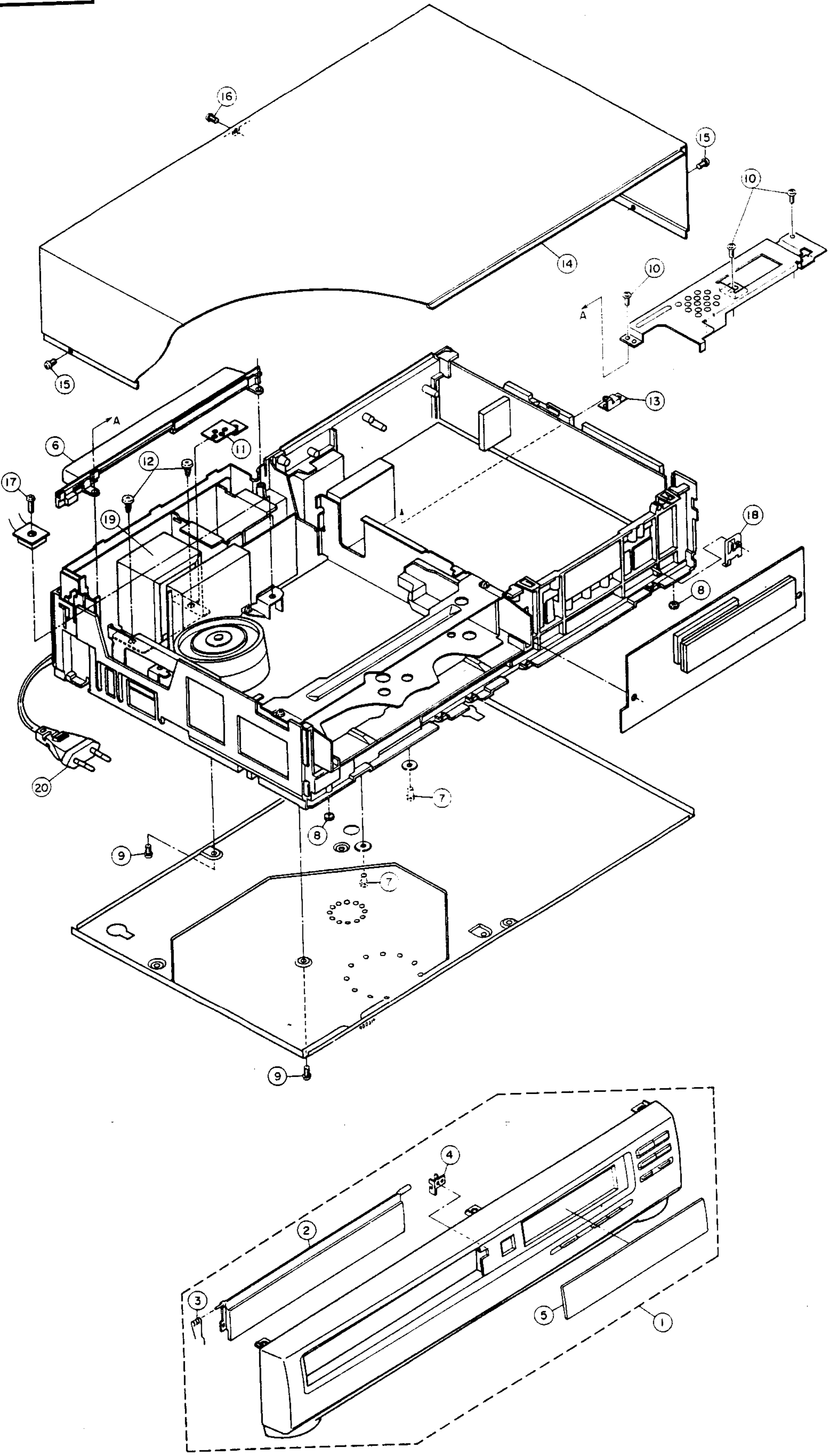
Ref.No.	Part No.	Description
1A	BD-407462J1	PANEL FRONT VS-F260EDG PART
1B	BD-407464J1	PANEL FRONT VS-F260EM PART
1C	BD-407506J1	PANEL FRONT VS-F260EOH PART
1D	BD-407508J	PANEL FRONT VS-F265EOH PART
1E	BD-407509J1	PANEL FRONT VS-F275EOH PART
1F	BD-407503J1	PANEL FRONT VS-F280EO PART [280EOH]
1G	BD-407505J	PANEL FRONT VS-F290EOH PART
1H	BD-407465J1	PANEL FRONT VS-F260ES PART
2A	SE-409018J1	MASK CASSETTE VS-F260 (E) [EDG]
2B	SE-409019J1	MASK CASSETTE VS-F260 (E2) [EM/ES]
2C	SE-409025J1	MASK CASSETTE VS-F260 (E3) [260EOH]
2D	SE-409259J	MASK CASSETTE VS-F265 (E) [265EOH]
2E	SE-409023J1	MASK CASSETTE VS-F275 (E) [275EOH]
2F	SE-409024J1	MASK CASSETTE VS-F280 (E) [280EOH]
2G	SE-409264J	MASK CASSETTE VS-F290 (E) [290EOH]
3	ZG-387370J	SP MASK
4	SZ-401874J	STOPPER MASK
5A	SE-407725J	WINDOW FLD (EDG)
5B	SE-407416J	WINDOW FLD (EM)
6	SC-387353J	COVER TRANS
7	ZS-362378	PLX BID30X10STL CMT
8	SA-387507J	FOOT SX
9	ZS-358936	ST BID30X06STL CMT
10	ZS-378341	PLX BID30X12STL CMT
11	ZG-387505J	PLATE EARTH
12	ZS-373962	PLX BID40X10STL CMT
13	ZG-387354J	PLATE EARTH (2)
14	SP-407479J	COVER UPPER JX
15	ZS-385611J	DT BID26X06STL BNI
16	ZS-391046J	PLX BID26X10STL BNI
17	ZS-357946	PLX PAN30X10STL CMT C080
18	ZG-392214J1	PLATE EARTH (3)
19A	*BT-403874J	TRANS POW V1130 EDG [EDG]
19B	*BT-403251J	TRANS POW V1130 EM [EM]
19C	*BT-403873J	TRANS POW V1130 EO [EOH]
19D	*BT-404028J	TRANS POW V1130 ES [ES]
20	*EW-404002M	AC CORD 200 SE-1 WITH TUBE E

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

20. ACCASSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2A	AV-B1038A010A	REMOCON BLK RC-V250E [EXCEPT 275/290EOH]
2B	AV-B1042A010C	REMOCON BLK RC-V252E (G) [275/290EOH]

FINAL ASSEMBLY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6-2. MODEL VS-F260EO, F270EOG, F280EO/EOG-V

1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1038A010A	REMOCON BLK RC-V250E [EO]
2	AV-B1039A010A	REMOCON BLK RC-V251G [EOG-V]
3	AV-B1042A010C	REMOCON BLK RC-V252E (G) [EOG]
4	BB-V1130A020H	MECHA DECK BLK F260EA
5	BL-V1102A140A	ARM LOADING BLK 425EA
6	BL-V1102A050A	TENSION ARM BLK 425EA
7	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
8	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
9	BM-387503J	MOTOR PART [LOADING MOTOR]
10	*BT-403873J	TRANS POW V1130 EO [EXCEPT EOG-V]
11	*BT-403883J	TRANS POW V1130 EOG-V [EOG-V]
12	BV-V1102A150A	CASSETTE LOAD BLK 425EA
13	BV-V1102A070A	LEADER S BLK 425EA
14	BV-V1102A080A	LEADER T BLK 425EA
15	BV-V1123A410A	LOWER DRUM BLK X400EGN
16	BV-403409J	RF CONVERTER MDLK6D755A EO
17	BV-V1123A420A	UPPER DRUM BLK X400EGN
18	BV-403241J1	VIF UNIT KX EOG
19	EA-387496J	PC (#) SENSOR
20	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
21	EC-408376J	C EC V CUT KMG 102M 50.0DC
22	EC-408377J	C EC V CUT KMG 222M 50.0DC
23	EC-408426J	C EC V F05 LXF8 121M 50.0DC
24	EC-406639J	C EC V T05 LXF6 330M 63.0DC
25	EC-403880J	C EC V T05 LXF8 221M 25.0DC
26	EC-403878J	C EC V T05 LXF8 271M 16.0DC
27	ED-390011J	D LED GL451 INFRARED [D1]
28	ED-390012J	D LED GL4800 INFRARED [D2]
29	ED-403450J	D LED SE303ARF-C INFRARED
30	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A [EOG/EOG-V]
31	ED-386226J	D SCHOTTKY RB100AT-32T26 40/1 [EOG]
32	ED-386031J	D SILICON CHIP MA110-TW
33	*ED-379298	D SILICON DBA20B 100/2.0A
34	ED-366443	D SILICON H MA700FA5 F10
35	ED-307572	D SILICON H 1SS131
36	ED-511907	D SILICON 1N4002 100/1.0A
37	ED-391005J	D ZENER H HZS12B1
38	ED-396060J	D ZENER H HZS18-2
39	ED-397233J	D ZENER H HZS5C3
40	ED-387919J	D ZENER H HZS6A1L
41	ED-405603J	D ZENER H MTZJ10B T26
42	ED-405373J	D ZENER H MTZJ16A T26
43	ED-403267J	D ZENER H MTZJ3.3B T26
44	ED-405524J	D ZENER H MTZJ36A T26
45	ED-405604J	D ZENER H MTZJ4.3C T26
46	ED-403724J	D ZENER H UTZJ10A
47	*ED-404029J	D ZENER H UTZJ10B T26
48	ED-405264J	D ZENER H UTZJ10C
49	ED-403726J	D ZENER H UTZJ30B [EOG/EOG-V]
50	ED-404032J	D ZENER H UTZJ39A
51	ED-405446J	D ZENER H UTZJ5.6B T26
52	ED-403730J	D ZENER H UTZJ6.2A [EOG/EOG-V]
53	ED-403278J	D ZENER H UTZJ7.5B
54	ED-404086J	D ZENER H UTZJ7.5C
55	ED-403279J	D ZENER H UTZJ9.1B
56	EE-387604J2	TV TUNER TERE1-007C EOG
57	EH-383083J	COMP R RGLE3X 103J
58	EH-383056J	COMP R RGLE4X 103J
59	EH-386637J	COMP R RGLE8X 103J
60	EH-403945J	COMP R RGLE9X 103J
61	EH-390730J	DL EFD-JF124A13J
62	EH-730625J	FILTER CE SAF38.9MZW70Z
63	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG/EOG-V]
64	EH-373920	FILTER CE SFE5.5MB
65	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
66	EH-394684J	FILTER EMI ZBF503D-00TA T05
67	EI-408416J1	IC MN675121 XAV4 KBXSYP5
68	EI-394680J	IC AN3171K
69	EI-373981J1	IC BA10393N
70	EI-373980	IC BA15218N
71	*EI-381575J	IC BA6121
72	EI-353421	IC BA6229
73	EI-366892	IC BA7025L [EOG/EOG-V]
74	EI-388360J	IC BA7765AS
75	EI-403231J	IC CD4066BE
76	EI-403250J	IC LA7376
77	EI-403234J1	IC LA7391A
78	EI-394856J	IC LC8992
79	EI-401050J	IC LVA523SA2
80	EI-389622J	IC L5631
81	EI-387019J	IC MC1377P
82	EI-408434J	IC MV1815
83	EI-408408J1	IC M50933-128FP JXLCDR2
84	EI-368809	IC M51496P
85	EI-400756J	IC NJM4558L-B
86	EI-400672J	IC S-8052ALB-LE
87	EI-373955	IC S-8053ALR
88	EI-385958J	IC SAA4700
89	EI-408393J	IC ST24C01B1
90	EI-405224J	IC ST24C02
91	EI-376112	IC UPD6122G
92	EI-405722J	IC UPD6450CX-515
93	EI-408430J	IC UPD75004CU-*** JXVPS1
94	EI-408391J1	IC UPD75217CW-146 JBXOPP2
95	EI-408432J	IC UPD75218CW-*** JXVPT1
96	EI-410125J	IC V53C464A***
97	EI-403451J	OSC CE CSB1200J 1.200MHZ
98	EI-403467J	OSC CE CSB500F40 15.680KHZ
99	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
100	EI-390687J	OSC CE CSU455PL 455KHZ
101	EI-408433J	OSC X'TAL HC-43/U 27750KHZ
102	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
103	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
104	EI-394673J	OSC X'TAL HC-49/U 8867.238KHZ
105	EI-368825	OSC X'TAL MX-38T 32.768KHZ
106	EI-381632J	OSC X'TAL 86686 4.433619MHZ
107	EJ-403095J	TERMINAL LCD (3) B1014
108	EM-401077J	IND FL FV496G CHARACTER
109	EM-403448J	IND LCD LF5381G ENGLISH
110	EO-408381J	COIL FIX 2 C-5344-40 560K
111	EO-388362J	COIL OSC 1 V1102
112	*ER-331188	R FUSE H S10 ERD2FC 1/4W 8R2J
113	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
114	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
115	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
116	*ER-405441J	R FUSE V T05 RF25SCVTP1/4WR27K
117	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
118	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
119	*ER-400689J	R FUSE V T05 RF25SCVTP1/4WR68K
120	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR 12K
121	ER-403405J	R OMF H S12 FS 1W R75J
122	ER-333091	R OMF H S20 FS 2W 360J
123	ES-373099	SW LEAF MTS10110MPC1
124	ES-387465J	SW MODE SELECT MMS00070ZLB O [SW1]
125	ES-408404J	SW TACT EVQ 235 07K T05 [280EO]

Ref.No.	Part No.	Description
126	ES-408405J	SW TACT EVQ 235 09K T05 [EXCEPT 280EO]
127	ES-349474	SW TACT SKHHAM004A
128	ET-381637J2	DETECTOR GP1U521X
129	ET-724885J	TR CHIP RT1N141C
130	ET-713614	TR CHIP 2SA1235 E,F
131	ET-725820J	TR CHIP 2SC2735J
132	ET-356336	TR DTA114ES
133	ET-354415	TR DTA144ES
134	ET-373985	TR DTA144TS
135	ET-353897	TR DTC114ES
136	ET-360399	TR DTC114TS
137	ET-354364	TR DTC143TS
138	ET-354414	TR DTC144ES
139	ET-361490	TR PHOTO PN268 [TR1]
140	ET-390010J	TR PHOTO PT4800 [TR2]
141	ET-390009J	TR PHOTO PT493F [TR4]
142	ET-364040	TR UN421D
143	ET-353899	TR 2SA1317 S,T,U
144	*ET-366365	TR 2SB1185 E,F
145	ET-388338J	TR 2SB1425 S,E
146	ET-356817	TR 2SB891 Q,R
147	ET-375777	TR 2SC2926S P,Q
148	ET-397160J	TR 2SC3330 R,S,T,U,V
149	ET-354083	TR 2SD1189 Q,R
150	ET-366168	TR 2SD1292 Q,R [EOG/EOG-V]
151	*ET-381175J	TR 2SD1856
152	ET-405622J	TR 2SD2061 E,F
153	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
154	HE-390013J	HEAD E HVFME0020A
155	HR-405340J	HEAD COMBO HVMZA1121A
156	MB-387289J	BELT CAPSTAN
157	MI-387294J	IDLER PART
158	ML-391745J3	ARM DAMPER
159	ML-387350J1	ARM LID OPENER
160	ML-387423J	ARM LOADING BRAKE
161	ML-387277J3	ARM REVIEW PART
162	ML-387402J1	LEVER TRIGGER
163	ML-387316J	MAIN BRAKE (S) PART
164	ML-387318J	MAIN BRAKE (T) PART
165	ML-387321J	REVIEW BRAKE PART
166	ML-387324J1	SLIDER BRAKE PART
167	ML-404944J	SLIDER TRIGGER (2)
168	MP-404852J	PINCH ROLLER (2) PART
169	MR-387406J	HOLDER THRUST WORM
170	MR-391968J	PULLEY TRIGGER (2)
171	MR-387286J1	ROLLER IMPEDANCE
172	MT-390954J1	DISK (2) PART
173	MZ-387298J3	DISK CLUTCH PART
174	MZ-387331J	GEAR CAM SLIDER
175	MZ-387335J	GEAR EJECT
176	MZ-387333J	GEAR FRONT LOADING
177	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
178	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
179	MZ-387332J	GEAR WORM WHEEL

※ Parts list for HEAD DRUM, MECHA. (1) and MECHA. (2) BLOCK refer to 6-1. EOH list (P24 to 26)

5. P.C BOARD BLK

Ref.No.	Part No.	Description
1A	BA-V1130A600E	PC (#) MAIN (PAL) BLK F200EO [EO]
1B	BA-V1130Q605F	FRPC (#) MAIN (PAL) BLKF270EOG/FR [EOG]
1C	BA-V1130Q600M	FRPC (#) MAIN (PAL)BLKF280EOG-V/FR [EOG-V]
2	BA-V1130A610C	PC PRE AMP BLK F220EDG
3A	BA-V1146Q630J	FRPC OPERATION (A) BLK F260EO/FR
3B	BA-V1146Q630H	FRPC OPERATION (A) BLK F280EO/FR
3C	BA-V1146Q630K	FRPC OPERATION (A) BLK F270EOG/FR
3D	BA-V1146Q640J	FRPC OPERATION (A) BLK F280EOG-V/FR
4A	BA-V1132A500A	PC (#) POWER EO BLK F200EO [EO]
4B	BA-V1132A500B	PC (#) POWER EO BLK F200EOG [EOG]
4C	BA-V1135A500E	PC (#) POWER EOG BLK F300EOG-V [EOG-V]

PC (#) MAIN (PAL) BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN (A) P.C BOARD
- MAIN (B) P.C BOARD

PC (#) POWER EO BLK CONSISTS OF FOLLOWING P.C BOARD.

- POWER P.C BOARD
- DIODE P.C BOARD

PC (#) POWER EOG BLK CONSISTS OF FOLLOWING P.C BOARD.

- POWER SUPPLY (1) P.C BOARD
- POWER SUPPLY (2) P.C BOARD
- DIODE P.C BOARD

6. MAIN (A) P.C BOARD

Ref.No.	Part No.	Description
C369	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D8	ED-387919J	D ZENER H HZS6A1L
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D12	ED-405603J	D ZENER H MTZJ10B T26
D13	ED-405604J	D ZENER H MTZJ4.3C T26
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-397233J	D ZENER H HZS5C3
D205	ED-403267J	D ZENER H MTZJ3.3B T26
D206	ED-307572	D SILICON H 1SS131 [EOG/EOG-V]
D207	ED-307572	D SILICON H 1SS131 [EOG/EOG-V]
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D210	ED-403726J	D ZENER H UTZJ30B [EOG/EOG-V]
D211	ED-403730J	D ZENER H UTZJ6.2A [EOG/EOG-V]
D212	ED-511907	D SILICON 1N4002 100/1.0A
D213	ED-511907	D SILICON 1N4002 100/1.0A
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-404086J	D ZENER H UTZJ7.5C
D304	ED-403724J	D ZENER H UTZJ10A
D305	ED-307572	D SILICON H 1SS131
D306	ED-307572	D SILICON H 1SS131
D307	ED-307572	D SILICON H 1SS131
D308	ED-307572	D SILICON H 1SS131
D309	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D405	ED-307572	D SILICON H 1SS131
D406	ED-366443	D SILICON H MA700FA5 F10
D501	ED-307572	D SILICON H 1SS131
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D505	ED-307572	D SILICON H 1SS131
D506	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
D508	ED-307572	D SILICON H 1SS131
DL500	EH-390730J	DL EFD-JF124A13J
FR201	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
FR202	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
FR350	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
FR501	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
IC1	EI-389622J	IC L5631
IC101	EI-403231J	IC CD4066BE
IC201	EI-400756J	IC NJM4558L-B
IC301	EI-408416J1	IC MN675121 XAV4 KBXSYP5
IC302	EI-353421	IC BA6229
IC303	EI-373980	IC BA15218N
IC400	EI-403234J1	IC LA7391A
IC401	EI-394856J	IC LC8992
IC402	EI-373981J1	IC BA10393N
L101	EO-345881	COIL FIX 1 EL0606SKI 101J
L103	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L301	EO-381196J	COIL FIX 1 EL0405SKI 470K
L302	EO-345881	COIL FIX 1 EL0606SKI 101J
L401	EO-354600	COIL FIX 1 LAP02 F05 101K
L402	EO-357508	COIL FIX 1 LAP02 F05 151K
L403	EO-381192J	COIL FIX 1 EL0405SKI 270K
L404	EO-345880	COIL FIX 1 EL0606SKI 820J
L405	EO-354600	COIL FIX 1 LAP02 F05 101K
L410	EO-345874	COIL FIX 1 EL0606SKI 330J
L470	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L472	EO-345880	COIL FIX 1 EL0606SKI 820J
L474	EO-388161J	COIL FIX 1 EL0405SKI 560K
L480	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J [EOG/EOG-V]
L500	EO-345880	COIL FIX 1 EL0606SKI 820J
L501	EO-353900	COIL FIX 1 LAP02 F05 150K
L505	EO-345880	COIL FIX 1 EL0606SKI 820J
L506	EO-345880	COIL FIX 1 EL0606SKI 820J

Ref.No.	Part No.	Description
L507	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L508	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J
L509	EO-345880	COIL FIX 1 EL0606SKI 820J
L510	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L511	EO-381195J	COIL FIX 1 EL0405SKI 331K
L512	EO-381197J	COIL FIX 1 EL0405SKI 471K
L570	EO-345880	COIL FIX 1 EL0606SKI 820J
MD1	BV-403409J	RF CONVERTER MDLK6D755A EO
J102	EJ-387613J	SOCKET M1812 21P
R214	ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-375777	TR 2SC2926S P,Q
TR3	ET-353899	TR 2SA1317 S,T,U
TR4	ET-353899	TR 2SA1317 S,T,U
TR5	ET-353899	TR 2SA1317 S,T,U
TR7	ET-353899	TR 2SA1317 S,T,U
TR8	ET-354414	TR DTC144ES
TR9	ET-354414	TR DTC144ES
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR15	ET-353897	TR DTC114ES
TR17	ET-397160J	TR 2SC3330 R,S,T,U,V
TR18	ET-397160J	TR 2SC3330 R,S,T,U,V
TR19	ET-354414	TR DTC144ES
TR20	ET-405622J	TR 2SD2061 E,F
TR101	ET-354414	TR DTC144ES
TR102	ET-356336	TR DTA114ES
TR103	ET-354414	TR DTC144ES
TR104	ET-353899	TR 2SA1317 S,T,U
TR105	ET-353899	TR 2SA1317 S,T,U
TR107	ET-397160J	TR 2SC3330 R,S,T,U,V.
TR108	ET-356336	TR DTA114ES
TR109	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-366168	TR 2SD1292 Q,R [EOG/EOG-V]
TR202	ET-356336	TR DTA114ES
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-388338J	TR 2SB1425 S,E
TR209	ET-354414	TR DTC144ES [EOG/EOG-V]
TR210	ET-405622J	TR 2SD2061 E,F
TR211	ET-356336	TR DTA114ES [EOG/EOG-V]
TR301	ET-354414	TR DTC144ES
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-354415	TR DTA144ES
TR306	ET-354414	TR DTC144ES
TR307	ET-373985	TR DTA144TS
TR308	ET-373985	TR DTA144TS
TR309	ET-373985	TR DTA144TS
TR310	ET-354414	TR DTC144ES
TR312	ET-354415	TR DTA144ES
TR401	ET-356336	TR DTA114ES
TR404	ET-354364	TR DTC143TS
TR406	ET-397160J	TR 2SC3330 R,S,T,U,V
TR407	ET-353899	TR 2SA1317 S,T,U
TR408	ET-354414	TR DTC144ES
TR409	ET-360399	TR DTC114TS
TR410	ET-354414	TR DTC144ES
TR414	ET-388338J	TR 2SB1425 S,E
TR415	ET-353899	TR 2SA1317 S,T,U
TR417	ET-360399	TR DTC114TS
TR421	ET-364040	TR UN421D
TR423	ET-356336	TR DTA114ES
TR470	ET-353899	TR 2SA1317 S,T,U
TR471	ET-353899	TR 2SA1317 S,T,U
TR501	ET-353897	TR DTC114ES
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V
TR507	ET-397160J	TR 2SC3330 R,S,T,U,V
TR508	ET-356336	TR DTA114ES
TR509	ET-397160J	TR 2SC3330 R,S,T,U,V
TR510	ET-397160J	TR 2SC3330 R,S,T,U,V
TR511	ET-397160J	TR 2SC3330 R,S,T,U,V
TR512	ET-397160J	TR 2SC3330 R,S,T,U,V
TR513	ET-356336	TR DTA114ES
TR514	ET-354414	TR DTC144ES
TR515	ET-397160J	TR 2SC3330 R,S,T,U,V
TR570	ET-397160J	TR 2SC3330 R,S,T,U,V
TR571	ET-397160J	TR 2SC3330 R,S,T,U,V
TR572	ET-354414	TR DTC144ES

Ref.No.	Part No.	Description
VR301	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR401	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR402	EV-404300J	R S-FIX H T05 KVSF637T 0.1W472
VR403	EV-405659J	R S-FIX H T05 KVSF637T 0.1W682
VR404	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
WF201	EW-404138J1	CORD KX MA-POW L=225 12P
X301	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X500	EI-381632J	OSC X'TAL 86686 4.433619MHZ
1	BV-403241J1	VIF UNIT KX EOG
2	EE-387604J2	TV TUNER TERE1-007C EOG
3A	SP-387357J	PANEL REAR JACK EK [EO]
3B	SP-388305J	PANEL REAR JACK EOG [EOG/EOG-V]

7. MAIN (B) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-307572	D SILICON H 1SS131
D603	ED-307572	D SILICON H 1SS131
D801	ED-307572	D SILICON H 1SS131
D802	ED-386226J	D SCHOTTKY RB100AT-32T26 40/1 [EOG]
FL701	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG/EOG-V]
FL801	EO-388362J	COIL OSC 1 V1102
IC601	EI-405722J	IC UPD6450CX-515
IC602	EI-403469J	IC MM1068XS
IC701	EI-366892	IC BA7025L [EOG/EOG-V]
IC801	EI-388360J	IC BA7765AS
L601	EO-345881	COIL FIX 1 EL0606SKI 101J
L602	EO-345876	COIL FIX 1 EL0606SKI 470J
L603	EO-351866	COIL FIX 1 LAP02 F05 330K
L604	EO-351866	COIL FIX 1 LAP02 F05 330K
L605	EO-345881	COIL FIX 1 EL0606SKI 101J
L701	EO-345881	COIL FIX 1 EL0606SKI 101J [EOG/EOG-V]
L801	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L802	EO-390716J	COIL FIX 1 LHL06TB T05 272J
L850	EO-397389J	COIL FIX 1 EL0606SKI 4R7J [EOG-V]
TR601	ET-353899	TR 2SA1317 S,T,U
TR602	ET-354414	TR DTC144ES
TR603	ET-397160J	TR 2SC3330 R,S,T,U,V
TR604	ET-397160J	TR 2SC3330 R,S,T,U,V
TR605	ET-356336	TR DTA114ES
TR606	ET-356336	TR DTA114ES
TR607	ET-353899	TR 2SA1317 S,T,U
TR608	ET-353899	TR 2SA1317 S,T,U
TR609	ET-354414	TR DTC144ES
TR701	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG/EOG-V]
TR702	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG/EOG-V]
TR801	ET-397160J	TR 2SC3330 R,S,T,U,V
VC601	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VL701	EO-366893	COIL VARI 1 21D6 8.20MH [EOG/EOG-V]
VR801	EV-403967J	R S-FIX V T05EVNDCAA03 0.1W332
VR802	EV-403968J	R S-FIX V T05EVNDCAA03 0.1W473
X601	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X602	EI-403467J	OSC CE CSB500F40 15.680KHZ

8. PRE-AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
IC1	EI-403250J	IC LA7376
L1	EO-376858	COIL FIX 1 LF-5.0S F05 560K
L2	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-376859	COIL FIX 1 LF-5.0S F05 8R2K
L5	EO-388088J	COIL FIX 1 EL0405SKI 151K
L6	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L7	EO-376603	COIL FIX 1 LF-5.0S F05 150K
L8	EO-387803J	COIL FIX 1 EL0405SKI 221K
L9	EO-345880	COIL FIX 1 EL0606SKI 820J
L10	EO-345880	COIL FIX 1 EL0606SKI 820J
L13	EO-345880	COIL FIX 1 EL0606SKI 820J
L14	EO-376860	COIL FIX 1 LF-5.0S F05 820K
PS1	EJ-381075J	SOCKET HOUSING 5062-30-10-12
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-364040	TR UN421D
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-353899	TR 2SA1317 S,T,U
TR7	ET-360399	TR DTC114TS
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-364040	TR UN421D
TR11	ET-354414	TR DTC144ES
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR14	ET-353899	TR 2SA1317 S,T,U
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR3	EV-405248J	R S-FIX V T05EVNDCAA03 0.1W471
WP1	EW-403256J1	CORD FFC P1.25 L=230 12P

9. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D2	ED-307572	D SILICON H 1SS131
D10	ED-403279J	D ZENER H UTZJ9.1B
D11	ED-403278J	D ZENER H UTZJ7.5B
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D25	ED-307572	D SILICON H 1SS131
D26	ED-307572	D SILICON H 1SS131
D27	ED-307572	D SILICON H 1SS131
D32	ED-307572	D SILICON H 1SS131 [EOG-V]
D33	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A [EOG/EOG-V]
D41	ED-307572	D SILICON H 1SS131 [EOG/EOG-V]
D44	ED-307572	D SILICON H 1SS131 [EO]
FL1	EM-401077J	IND FL FV496G CHARACTER
IB1	EH-403945J	COMP R RGLE9X 103J
IB2	EH-383083J	COMP R RGLE3X 103J
IC1	EI-408391J1	IC UPD75217CW-146 JBXOPP2
IC2	EI-408393J	IC ST24C01B1
IC3	EI-373955	IC S-8053ALR
PH1	ET-381637J2	DETECTOR GP1U521X
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
PS2	EJ-387497J	SOCKET HOUSING 5062-30-10-13
SW1A	ES-408404J	SW TACT EVQ 235 07K T05 [280EO]
SW1B	ES-408405J	SW TACT EVQ 235 09K T05 [EXCEPT 280EO]
SW2	ES-349474	SW TACT SKHHAM004A
SW3	ES-349474	SW TACT SKHHAM004A
SW4	ES-349474	SW TACT SKHHAM004A
SW5	ES-349474	SW TACT SKHHAM004A
SW6	ES-349474	SW TACT SKHHAM004A
SW7	ES-349474	SW TACT SKHHAM004A
SW8	ES-349474	SW TACT SKHHAM004A
SW9	ES-349474	SW TACT SKHHAM004A
SW12	ES-349474	SW TACT SKHHAM004A
TR1	ET-354414	TR DTC144ES
WP1	EW-394623J	CORD FFC P1.25 L=110 15P
WP2	EW-389313J	CORD FFC P1.25 L=120 13P
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-368825	OSC X'TAL MX-38T 32.768KHZ

10. VIF UNIT

Ref.No.	Part No.	Description
CF1	EH-730625J	FILTER CE SAF38.9MZW70Z
CF2	EH-373920	FILTER CE SFE5.5MB
CF3	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3	EO-725953J	COIL SIF DET 6F16263A2
L4	EO-714614	COIL RF 6F16115B1
L5	EO-714610	COIL RF 6F16113B1
L6	EO-387799J	COIL FIX 1 EL0405SKI 180K
L7	EO-387799J	COIL FIX 1 EL0405SKI 180K
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
L51	EO-725964J	COIL TRAP 6F16222A1
L52	EO-725965J	COIL TRAP 6F16223A1
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
Q51	ET-724885J	TR CHIP RT1N141C
Q52	ET-724885J	TR CHIP RT1N141C
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR51	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR52	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

11. POWER P.C BOARD (EXCEPT EOG-V)

Ref.No.	Part No.	Description
C1	EC-406634J	C EC V SXE12 222M 25.0DC
C2	EC-363490	C EC V CUT SME 222M 16.0DC
C3	EC-406635J	C EC V SXE16 222M 35.0DC
C4	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C5	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C10	EC-405612J	C EC V T05 SXE4 4R7M 50.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D9	*ED-511907	D SILICON 1N4002 100/1.0A
D11	*ED-511907	D SILICON 1N4002 100/1.0A
D13	ED-405373J	D ZENER H MTZJ16A T26
D14	ED-404032J	D ZENER H UTZJ39A
D15	ED-405524J	D ZENER H MTZJ36A T26
D16	*ED-404029J	D ZENER H UTZJ10B T26
FL1	*EO-339907	COIL LF FKOB160MH16 1000.0UH [EOG]
FR1	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR2	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR3	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR4	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR5	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
TR1	*ET-381175J	TR 2SD1856
TR2	*ET-366365	TR 2SB1185 E,F
TR3	*ET-405622J	TR 2SD2061 E,F
TR4	*ET-405622J	TR 2SD2061 E,F
TR5	*ET-405622J	TR 2SD2061 E,F
TR6	*ET-405622J	TR 2SD2061 E,F
TR7	*ET-366365	TR 2SB1185 E,F

12. DIODE P.C BOARD (EXCEPT EOG-V)

Ref.No.	Part No.	Description
D1	*ED-379298	D SILICON DBA20B 100/2.0A

13. POWER SUPPLY (1) P.C BOARD (EOG-V)

Ref.No.	Part No.	Description
C1	EC-408376J	C EC V CUT KMG 102M 50.0DC
C2	EC-408377J	C EC V CUT KMG 222M 50.0DC
C3	EC-408426J	C EC V F05 LXF8 121M 50.0DC
C4	EC-403878J	C EC V T05 LXF8 271M 16.0DC
C14	EC-408426J	C EC V F05 LXF8 121M 50.0DC
C15	EC-403878J	C EC V T05 LXF8 271M 16.0DC
C20	EC-403880J	C EC V T05 LXF8 221M 25.0DC
C23	EC-406639J	C EC V T05 LXF6 330M 63.0DC
C24	EC-406639J	C EC V T05 LXF6 330M 63.0DC
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D6	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D8	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D11	*ED-386226J	D SCHOTTKY RB100AT-32T26 40/1
D16	ED-307572	D SILICON H 1SS131
D17	*ED-511907	D SILICON 1N4002 100/1.0A
D18	*ED-511907	D SILICON 1N4002 100/1.0A
D19	ED-404032J	D ZENER H UTZJ39A
D20	ED-405524J	D ZENER H MTZJ36A T26
D27	ED-396060J	D ZENER H HZS18-2
D28	ED-391005J	D ZENER H HZS12B1
D51	ED-403267J	D ZENER H MTZJ3.3B T26
D54	ED-307572	D SILICON H 1SS131
D55	ED-307572	D SILICON H 1SS131
D57	ED-405264J	D ZENER H UTZJ10C
D58	ED-405264J	D ZENER H UTZJ10C
D71	*ED-511907	D SILICON 1N4002 100/1.0A
D72	*ED-511907	D SILICON 1N4002 100/1.0A
D73	*ED-511907	D SILICON 1N4002 100/1.0A
D74	*ED-511907	D SILICON 1N4002 100/1.0A
FL2	*EO-339907	COIL LF FKOB160MH16 1000.0UH
FR1	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR2	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR3	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
FR4	*ER-400689J	R FUSE V T05 RF25SCVTP1/4WR68K
FR5	*ER-405441J	R FUSE V T05 RF25SCVTP1/4WR27K
L1	EO-408381J	COIL FIX 2 C-5344-40 560K
L2	EO-408381J	COIL FIX 2 C-5344-40 560K
L3	EO-408381J	COIL FIX 2 C-5344-40 560K
L4	EO-408381J	COIL FIX 2 C-5344-40 560K
L6	EO-386541J	COIL FIX 1 ELF1010SKI 101K
L9	EO-393769J	COIL FIX 1 LHL06TB T05 471K
R14	ER-333091	R OMF H S20 FS 2W 360J
TR1	*ET-366365	TR 2SB1185 E,F
TR5	*ET-366365	TR 2SB1185 E,F
TR6	ET-356817	TR 2SB891 Q,R
TR9	*ET-366365	TR 2SB1185 E,F
TR12	*ET-405622J	TR 2SD2061 E,F
TR13	*ET-366365	TR 2SB1185 E,F
TR14	ET-360399	TR DTC114TS
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V

14. POWER SUPPLY (2) P.C BOARD (EOG-V)

Ref.No.	Part No.	Description
D7	ED-405264J	D ZENER H UTZJ10C
D10	ED-307572	D SILICON H 1SS131
D50	ED-387919J	D ZENER H HZS6A1L
D52	ED-307572	D SILICON H 1SS131
IC1	*EI-381575J	IC BA6121
L10	EO-380091J1	COIL FIX 2 C-5293-01 560K
TR2	*ET-405622J	TR 2SD2061 E,F
TR3	ET-353899	TR 2SA1317 S,T,U
TR4	*ET-404195J	TR 2SC4486 S,T T05
TR7	*ET-405622J	TR 2SD2061 E,F
TR8	ET-353899	TR 2SA1317 S,T,U

15. DIODE P.C BOARD (EOG-V)

Ref.No.	Part No.	Description
D14	*ED-379298	D SILICON DBA20B 100/2.0A

16. VPS P.C BOARD (EOG)

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131
D602	ED-405446J	D ZENER H UTZJ5.6B T26
FR601	*ER-331188	R FUSE H S10 ERD2FC 1/4W 8R2J
IB401	EH-386637J	COMP R RGLE8X 103J
IC301	EI-385958J	IC SAA4700
IC401	EI-408430J	IC UPD75004CU-*** JXVPS1
L1	EO-345865	COIL FIX 1 EL0606SKI 100J
L301	EO-345865	COIL FIX 1 EL0606SKI 100J
L401	EO-345865	COIL FIX 1 EL0606SKI 100J
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR601	ET-354083	TR 2SD1189 Q,R
X401	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ

17. VPST P.C BOARD (EOG-V)

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D101	ED-307572	D SILICON H 1SS131
D201	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131
D602	ED-405446J	D ZENER H UTZJ5.6B T26
FL101	EH-394684J	FILTER EMI ZBF503D-00TA T05
FR601	*ER-331188	R FUSE H S10 ERD2FC 1/4W 8R2J
IB101	EH-383056J	COMP R RGLE4X 103J
IB102	EH-386637J	COMP R RGLE8X 103J
IC101	EI-408432J	IC UPD75218CW-*** JXVPT1
IC102	EI-405224J	IC ST24C02
IC103	EI-405224J	IC ST24C02
IC104	EI-408434J	IC MV1815
IC105	EI-410125J	IC V53C464A***
IC106	EI-401050J	IC LVA523SA2
IC107	EI-394680J	IC AN3171K
IC108	EI-387019J	IC MC1377P
IC301	EI-385958J	IC SAA4700
L1	EO-345865	COIL FIX 1 EL0606SKI 100J
L101	EO-345865	COIL FIX 1 EL0606SKI 100J
L102	EO-345865	COIL FIX 1 EL0606SKI 100J
L121	EO-345865	COIL FIX 1 EL0606SKI 100J
L151	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L152	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L153	EO-345880	COIL FIX 1 EL0606SKI 820J
L154	EO-410099J	COIL FIX 1 SPT0203SA T26 470J
L155	EO-345865	COIL FIX 1 EL0606SKI 100J
L201	EO-345865	COIL FIX 1 EL0606SKI 100J
L202	EO-345865	COIL FIX 1 EL0606SKI 100J
L203	EO-345875	COIL FIX 1 EL0606SKI 390J
L204	EO-345873	COIL FIX 1 EL0606SKI 270J
L206	EO-345871	COIL FIX 1 EL0606SKI 180J
L207	EO-345874	COIL FIX 1 EL0606SKI 330J
L208	EO-345874	COIL FIX 1 EL0606SKI 330J
L251	EO-345865	COIL FIX 1 EL0606SKI 100J
L301	EO-345865	COIL FIX 1 EL0606SKI 100J
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR101	ET-354415	TR DTA144ES
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR151	ET-397160J	TR 2SC3330 R,S,T,U,V
TR152	ET-353899	TR 2SA1317 S,T,U
TR153	ET-353899	TR 2SA1317 S,T,U
TR154	ET-397160J	TR 2SC3330 R,S,T,U,V
TR155	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR204	ET-353899	TR 2SA1317 S,T,U
TR208	ET-353899	TR 2SA1317 S,T,U
TR251	ET-397160J	TR 2SC3330 R,S,T,U,V
TR252	ET-353899	TR 2SA1317 S,T,U
TR253	ET-353899	TR 2SA1317 S,T,U
TR601	ET-354083	TR 2SD1189 Q,R
X101	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X102	EI-408433J	OSC X'TAL HC-43/U 27750KHZ
X103	EI-394673J	OSC X'TAL HC-49/U 8867.238KHZ

18. FINAL ASSEMBLY BLOCK

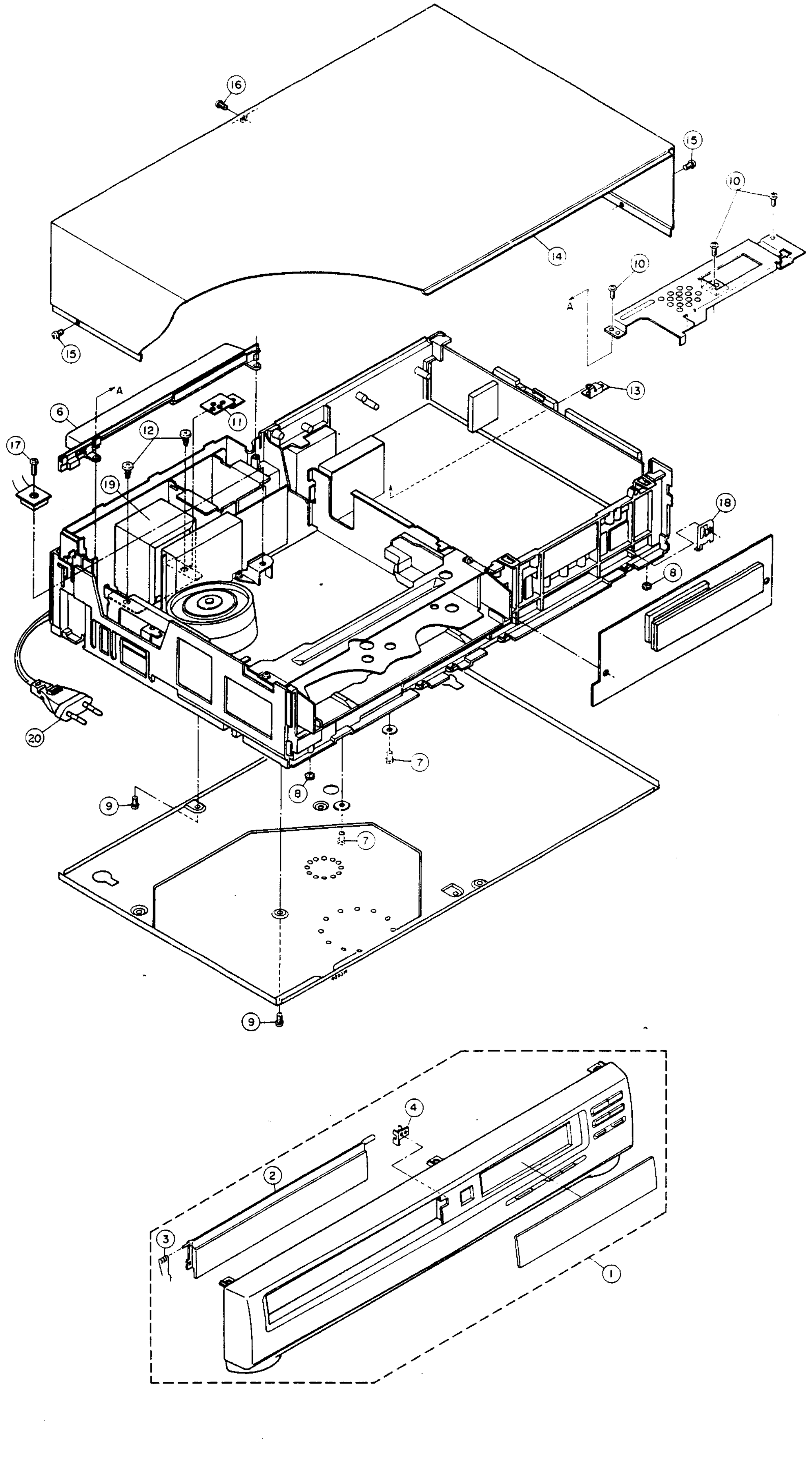
Ref.No.	Part No.	Description
1A	BD-404286J	PANEL FRONT VS-F260EK PART [260EO]
1B	BD-407503J1	PANEL FRONT VS-F280EO PART [280EO]
1C	BD-407504J	PANEL FRONT VS-F270EOG PART [EOG]
1D	BD-407491J	PANEL FRONT VS-F280EOG-V PART [EOG-V]
2A	SE-409256J	MASK CASSETTE VS-F260 (E) [260EO]
2B	SE-409024J1	MASK CASSETTE VS-F280 (E) [280EO]
2C	SE-409257J	MASK CASSETTE VS-F270 (G) [EOG]
2D	SE-409262J	MASK CASSETTE VS-F280 (G) [EOG-V]
3	ZG-387370J	SP MASK
4	SZ-401874J	STOPPER MASK
6	SC-387353J	COVER TRANS
7	ZS-362378	PLX BID30X10STL CMT
8	SA-387507J	FOOT SX
9	ZS-358936	ST BID30X06STL CMT
10	ZS-378341	PLX BID30X12STL CMT
11	ZG-387505J	PLATE EARTH
12	ZS-373962	PLX BID40X10STL CMT
13	ZG-387354J	PLATE EARTH (2)
14	SP-407479J	COVER UPPER JX
15	ZS-385611J	DT BID26X06STL BNI
16	ZS-391046J	PLX BID26X10STL BNI
17	ZS-357946	PLX PAN30X10STL CMT C080
18	ZG-392214J1	PLATE EARTH (3)
19A	*BT-403873J	TRANS POW V1130 EO [EXCEPT EOG-V]
19B	*BT-403883J	TRANS POW V1130 EOG-V [EOG-V]
20	*EW-404002M	AC CORD 200 SE-1 WITH TUBE E

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

19. ACCASSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2A	AV-B1038A010A	REMOCON BLK RC-V250E [EO]
2B	AV-B1042A010C	REMOCON BLK RC-V252E (G) [EOG]
2C	AV-B1039A010A	REMOCON BLK RC-V251G [EOG-V]

FINAL ASSEMBLY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6-3. MODEL VS-F260EK, F280EK

1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1038A010A	REMOCON BLK RC-V250E
2	BB-V1130A020H	MECHA DECK BLK F260EA
3	BL-V1102A140A	ARM LOADING BLK 425EA
4	BL-V1102A050A	TENSION ARM BLK 425EA
5	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
6	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
7	BM-387503J	MOTOR PART [LOADING MOTOR]
8	*BT-403872J	TRANS POW V1130 EK
9	BV-V1102A150A	CASSETTE LOAD BLK 425EA
10	BV-V1102A070A	LEADER S BLK 425EA
11	BV-V1102A080A	LEADER T BLK 425EA
12	BV-V1123A410A	LOWER DRUM BLK X400EGN
13	BV-403410J	RF CONVERTER MDLK6B733A EK
14	BV-V1123A420A	UPPER DRUM BLK X400EGN
15	BV-403238J1	VIF UNIT KX EK
16	EA-387496J	PC (#) SENSOR
17	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
18	ED-390011J	D LED GL451 INFRARED [D1]
19	ED-390012J	D LED GL4800 INFRARED [D2]
20	ED-403450J	D LED SE303ARF-C INFRARED
21	ED-386031J	D SILICON CHIP MA110-TW
22	ED-366443	D SILICON H MA700FA5 F10
23	ED-307572	D SILICON H 1SS131
24	ED-511907	D SILICON 1N4002 100/1.0A
25	ED-397233J	D ZENER H HZS5C3
26	ED-387919J	D ZENER H HZS6A1L
27	ED-405373J	D ZENER H MTZJ16A T26
28	ED-403267J	D ZENER H MTZJ3.3B T26
29	ED-405524J	D ZENER H MTZJ36A T26
30	ED-403724J	D ZENER H UTZJ10A
31	*ED-404029J	D ZENER H UTZJ10B T26
32	ED-403725J	D ZENER H UTZJ12C
33	ED-404032J	D ZENER H UTZJ39A
34	ED-403278J	D ZENER H UTZJ7.5B
35	ED-404086J	D ZENER H UTZJ7.5C
36	ED-403279J	D ZENER H UTZJ9.1B
37	EE-387607J1	TV TUNER TERB1-008B EK
38	EH-383083J	COMP R RGLE3X 103J
39	EH-403945J	COMP R RGLE9X 103J
40	EH-390730J	DL EFD-JF124A13J
41	EH-373921	FILTER CE SFE6.0MB
42	EH-373919	FILTER CE TPS6.0MB
43	EH-714628	FILTER SAW SAF39.5MZ70Z
44	EI-408416J1	IC MN675121 XAV4 KBXSYP5
45	EI-373981J1	IC BA10393N
46	EI-373980	IC BA15218N
47	EI-353421	IC BA6229
48	EI-388360J	IC BA7765AS
49	EI-403231J	IC CD4066BE
50	EI-403250J	IC LA7376
51	EI-403234J1	IC LA7391A
52	EI-394856J	IC LC8992
53	EI-389622J	IC L5631
54	EI-403469J	IC MM1068XS
55	EI-368809	IC M51496P
56	EI-400756J	IC NJM4558L-B
57	EI-373955	IC S-8053ALR
58	EI-408393J	IC ST24C01B1
59	EI-376112	IC UPD6122G
60	EI-405722J	IC UPD6450CX-515
61	EI-408391J1	IC UPD75217CW-146 JBXOPP2
62	EI-403467J	OSC CE CSB500F40 15.680KHZ
63	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
64	EI-390687J	OSC CE CSU455PL 455KHZ
65	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
66	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
67	EI-368825	OSC X'TAL MX-38T 32.768KHZ
68	EI-381632J	OSC X'TAL 86686 4.433619MHZ
69	EM-401077J	IND FL FV496G CHARACTER
70	EO-388362J	COIL OSC 1 V1102
71	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
72	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
73	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
74	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
75	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
76	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
77	ER-403405J	R OMF H S12 FS 1W R75J
78	ES-373099	SW LEAF MTS10110MPC1
79	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
80	ES-408404J	SW TACT EVQ 235 07K T05 [280]
81	ES-408405J	SW TACT EVQ 235 09K T05 [260]
82	ES-349474	SW TACT SKHHAM004A
83	ET-381637J2	DETECTOR GP1U521X
84	ET-713614	TR CHIP 2SA1235 E,F
85	ET-725820J	TR CHIP 2SC2735J
86	ET-356336	TR DTA114ES
87	ET-354415	TR DTA144ES
88	ET-373985	TR DTA144TS
89	ET-353897	TR DTC114ES
90	ET-360399	TR DTC114TS
91	ET-354364	TR DTC143TS
92	ET-354414	TR DTC144ES
93	ET-361490	TR PHOTO PN268 [TR1]
94	ET-390010J	TR PHOTO PT4800 [TR2]
95	ET-390009J	TR PHOTO PT493F [TR4]
96	ET-364040	TR UN421D
97	ET-353899	TR 2SA1317 S,T,U
98	*ET-366365	TR 2SB1185 E,F
99	ET-388338J	TR 2SB1425 S,E
100	ET-375777	TR 2SC2926S P,Q
101	ET-397160J	TR 2SC3330 R,S,T,U,V
102	*ET-381175J	TR 2SD1856
103	ET-405622J	TR 2SD2061 E,F
104	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
105	HE-390013J	HEAD E HVFME0020A
106	HR-405340J	HEAD COMBO HVMZA1121A
107	MB-387289J	BELT CAPSTAN
108	MI-387294J	IDLER PART
109	ML-391745J3	ARM DAMPER
110	ML-387350J1	ARM LID OPENER
111	ML-387423J	ARM LOADING BRAKE
112	ML-387277J3	ARM REVIEW PART
113	ML-387402J1	LEVER TRIGGER
114	ML-387316J	MAIN BRAKE (S) PART
115	ML-387318J	MAIN BRAKE (T) PART
116	ML-387321J	REVIEW BRAKE PART
117	ML-387324J1	SLIDER BRAKE PART
118	ML-404944J	SLIDER TRIGGER (2)
119	MP-404852J	PINCH ROLLER (2) PART
120	MR-387406J	HOLDER THRUST WORM
121	MR-391968J	PULLEY TRIGGER (2)
122	MR-387286J1	ROLLER IMPEDANCE
123	MT-390954J1	DISK (2) PART
124	MZ-387298J3	DISK CLUTCH PART
125	MZ-387331J	GEAR CAM SLIDER
126	MZ-387335J	GEAR EJECT
127	MZ-387333J	GEAR FRONT LOADING
128	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
129	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
130	MZ-387332J	GEAR WORM WHEEL

※ Parts list for HEAD DRUM, MECHA. (1) and MECHA. (2) BLOCK refer to 6-1. EOH list (P24 to 26)

5. P.C BOARD BLK

Ref.No.	Part No.	Description
1	BA-V1130Q600C	FRPC (#)MAIN (PAL) BLKF200EK/FR
2	BA-V1130A610A	PC PRE AMP BLK F220EA
3A	BA-V1146Q630F	FRPC OPERATION (A) BLK F260EK/FR
3B	BA-V1146Q630E	FRPC OPERATION (A) BLK F280EK/FR
4	BA-V1130A500B	PC POWER BLK F200EK

PC (#) MAIN (PAL) BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN (A) P.C BOARD
- MAIN (B) P.C BOARD

6. MAIN (A) P.C BOARD

Ref.No.	Part No.	Description
C369	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D8	ED-387919J	D ZENER H HZS6A1L
D101	ED-403725J	D ZENER H UTZJ12C
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-397233J	D ZENER H HZS5C3
D205	ED-403267J	D ZENER H MTZJ3.3B T26
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D212	ED-511907	D SILICON 1N4002 100/1.0A
D213	ED-511907	D SILICON 1N4002 100/1.0A
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-404086J	D ZENER H UTZJ7.5C
D304	ED-403724J	D ZENER H UTZJ10A
D305	ED-307572	D SILICON H 1SS131
D306	ED-307572	D SILICON H 1SS131
D307	ED-307572	D SILICON H 1SS131
D308	ED-307572	D SILICON H 1SS131
D309	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D405	ED-307572	D SILICON H 1SS131
D406	ED-366443	D SILICON H MA700FA5 F10
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D505	ED-307572	D SILICON H 1SS131
D506	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
DL500	EH-390730J	DL EFD-JF124A13J
FR201	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
FR350	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
FR501	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
IC1	EI-389622J	IC L5631
IC101	EI-403231J	IC CD4066BE
IC201	EI-400756J	IC NJM4558L-B
IC301	EI-408416J1	IC MN675121 XAV4 KBXSYP5
IC302	EI-353421	IC BA6229
IC303	EI-373980	IC BA15218N
IC400	EI-403234J1	IC LA7391A
IC401	EI-394856J	IC LC8992
IC402	EI-373981J1	IC BA10393N
L1	EO-390998J	COIL FIX 1 LAP02 F05 R68K
L101	EO-345881	COIL FIX 1 EL0606SKI 101J
L103	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L301	EO-381196J	COIL FIX 1 EL0405SKI 470K
L302	EO-345881	COIL FIX 1 EL0606SKI 101J
L401	EO-354600	COIL FIX 1 LAP02 F05 101K
L402	EO-357508	COIL FIX 1 LAP02 F05 151K
L403	EO-381192J	COIL FIX 1 EL0405SKI 270K
L404	EO-345880	COIL FIX 1 EL0606SKI 820J
L405	EO-354600	COIL FIX 1 LAP02 F05 101K
L410	EO-345874	COIL FIX 1 EL0606SKI 330J
L470	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L472	EO-345880	COIL FIX 1 EL0606SKI 820J
L474	EO-388161J	COIL FIX 1 EL0405SKI 560K
L500	EO-345880	COIL FIX 1 EL0606SKI 820J
L501	EO-353900	COIL FIX 1 LAP02 F05 150K
L505	EO-345880	COIL FIX 1 EL0606SKI 820J
L506	EO-345880	COIL FIX 1 EL0606SKI 820J
L507	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L508	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J
L509	EO-345880	COIL FIX 1 EL0606SKI 820J
L510	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L511	EO-381195J	COIL FIX 1 EL0405SKI 331K
L512	EO-381197J	COIL FIX 1 EL0405SKI 471K
L570	EO-345880	COIL FIX 1 EL0606SKI 820J
MD1	BV-403410J	RF CONVERTER MDLK6B733A EK
J102	EJ-387613J	SOCKET M1812 21P
R214	ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-375777	TR 2SC2926S P,Q
TR3	ET-353899	TR 2SA1317 S,T,U
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR15	ET-353897	TR DTC114ES
TR17	ET-397160J	TR 2SC3330 R,S,T,U,V
TR18	ET-397160J	TR 2SC3330 R,S,T,U,V
TR19	ET-354414	TR DTC144ES
TR101	ET-354414	TR DTC144ES
TR102	ET-356336	TR DTA114ES
TR103	ET-354414	TR DTC144ES
TR104	ET-353899	TR 2SA1317 S,T,U
TR105	ET-353899	TR 2SA1317 S,T,U
TR107	ET-397160J	TR 2SC3330 R,S,T,U,V
TR108	ET-356336	TR DTA114ES
TR109	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-356336	TR DTA114ES
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-388338J	TR 2SB1425 S,E
TR210	ET-405622J	TR 2SD2061 E,F
TR301	ET-354414	TR DTC144ES
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-354415	TR DTA144ES
TR306	ET-354414	TR DTC144ES
TR307	ET-373985	TR DTA144TS
TR308	ET-373985	TR DTA144TS
TR309	ET-373985	TR DTA144TS
TR310	ET-354414	TR DTC144ES
TR312	ET-354415	TR DTA144ES
TR401	ET-356336	TR DTA114ES
TR404	ET-354364	TR DTC143TS
TR406	ET-397160J	TR 2SC3330 R,S,T,U,V
TR407	ET-353899	TR 2SA1317 S,T,U
TR408	ET-354414	TR DTC144ES
TR409	ET-360399	TR DTC114TS
TR410	ET-354414	TR DTC144ES
TR414	ET-388338J	TR 2SB1425 S,E
TR415	ET-353899	TR 2SA1317 S,T,U
TR417	ET-360399	TR DTC114TS
TR421	ET-364040	TR UN421D
TR423	ET-356336	TR DTA114ES
TR470	ET-353899	TR 2SA1317 S,T,U
TR471	ET-353899	TR 2SA1317 S,T,U
TR501	ET-353897	TR DTC114ES
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V
TR507	ET-397160J	TR 2SC3330 R,S,T,U,V
TR508	ET-356336	TR DTA114ES
TR509	ET-397160J	TR 2SC3330 R,S,T,U,V
TR510	ET-397160J	TR 2SC3330 R,S,T,U,V
TR511	ET-397160J	TR 2SC3330 R,S,T,U,V
TR512	ET-397160J	TR 2SC3330 R,S,T,U,V
TR515	ET-397160J	TR 2SC3330 R,S,T,U,V
TR570	ET-397160J	TR 2SC3330 R,S,T,U,V
TR571	ET-397160J	TR 2SC3330 R,S,T,U,V
TR572	ET-354414	TR DTC144ES
VR301	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR401	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR402	EV-404300J	R S-FIX H T05 KVSF637T 0.1W472
VR403	EV-405659J	R S-FIX H T05 KVSF637T 0.1W682
VR404	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
WF201	EW-404138J1	CORD KX MA-POW L=225 12P
X301	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X500	EI-381632J	OSC X'TAL 86686 4.433619MHZ
1	BV-403238J1	VIF UNIT KX EK
2	EE-387607J1	TV TUNER TERB1-008B EK
3	SP-387357J	PANEL REAR JACK EK

7. MAIN (B) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-307572	D SILICON H 1SS131
D801	ED-307572	D SILICON H 1SS131
FL801	EO-388362J	COIL OSC 1 V1102
IC601	EI-405722J	IC UPD6450CX-515
IC602	EI-403469J	IC MM1068XS
IC801	EI-388360J	IC BA7765AS
L601	EO-345881	COIL FIX 1 EL0606SKI 101J
L602	EO-345876	COIL FIX 1 EL0606SKI 470J
L604	EO-351866	COIL FIX 1 LAP02 F05 330K
L605	EO-345881	COIL FIX 1 EL0606SKI 101J
L801	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L802	EO-390716J	COIL FIX 1 LHL06TB T05 272J
TR601	ET-353899	TR 2SA1317 S,T,U
TR602	ET-354414	TR DTC144ES
TR603	ET-397160J	TR 2SC3330 R,S,T,U,V
TR607	ET-353899	TR 2SA1317 S,T,U
TR608	ET-353899	TR 2SA1317 S,T,U
TR801	ET-397160J	TR 2SC3330 R,S,T,U,V
VC601	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VR801	EV-403967J	R S-FIX V T05EVNDCAA03 0.1W332
VR802	EV-403968J	R S-FIX V T05EVNDCAA03 0.1W473
X601	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X602	EI-403467J	OSC CE CSB500F40 15.680KHZ

8. PRE-AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
IC1	EI-403250J	IC LA7376
L1	EO-376858	COIL FIX 1 LF-5.0S F05 560K
L2	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-376859	COIL FIX 1 LF-5.0S F05 8R2K
L5	EO-381191J	COIL FIX 1 EL0405SKI 181K
L6	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L7	EO-376603	COIL FIX 1 LF-5.0S F05 150K
L8	EO-381193J	COIL FIX 1 EL0405SKI 271K
L9	EO-345880	COIL FIX 1 EL0606SKI 820J
L10	EO-345880	COIL FIX 1 EL0606SKI 820J
L13	EO-345880	COIL FIX 1 EL0606SKI 820J
L14	EO-376860	COIL FIX 1 LF-5.0S F05 820K
PS1	EJ-381075J	SOCKET HOUSING 5062-30-10-12
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-364040	TR UN421D
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-353899	TR 2SA1317 S,T,U
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-364040	TR UN421D
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR14	ET-353899	TR 2SA1317 S,T,U
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR3	EV-405248J	R S-FIX V T05EVNDCAA03 0.1W471
WP1	EW-403256J1	CORD FFC P1.25 L=230 12P

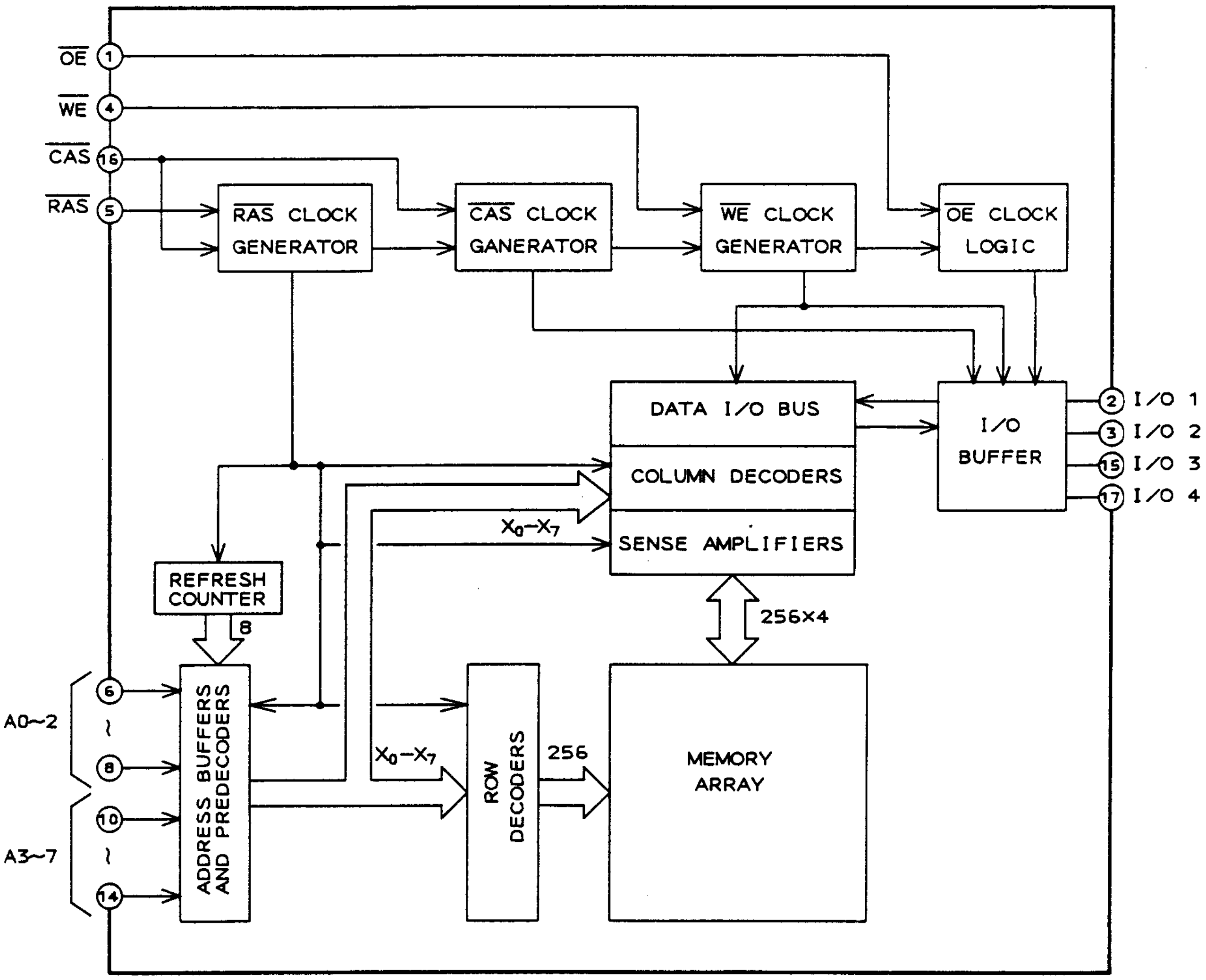
9. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D10	ED-403279J	D ZENER H UTZJ9.1B
D11	ED-403278J	D ZENER H UTZJ7.5B
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D25	ED-307572	D SILICON H 1SS131
D26	ED-307572	D SILICON H 1SS131
D27	ED-307572	D SILICON H 1SS131
D42	ED-307572	D SILICON H 1SS131
FL1	EM-401077J	IND FL FV496G CHARACTER
IB1	EH-403945J	COMP R RGLE9X 103J
IB2	EH-383083J	COMP R RGLE3X 103J
IC1	EI-408391J1	IC UPD75217CW-146 JBXOPP2
IC2	EI-408393J	IC ST24C01B1
IC3	EI-373955	IC S-8053ALR
PH1	ET-381637J2	DETECTOR GP1U521X
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
PS2	EJ-387497J	SOCKET HOUSING 5062-30-10-13
SW1A	ES-408404J	SW TACT EVQ 235 07K T05 [280]
SW1B	ES-408405J	SW TACT EVQ 235 09K T05 [260]
SW2	ES-349474	SW TACT SKHHAM004A
SW3	ES-349474	SW TACT SKHHAM004A
SW4	ES-349474	SW TACT SKHHAM004A
SW5	ES-349474	SW TACT SKHHAM004A
SW6	ES-349474	SW TACT SKHHAM004A
SW7	ES-349474	SW TACT SKHHAM004A
SW8	ES-349474	SW TACT SKHHAM004A
SW9	ES-349474	SW TACT SKHHAM004A
SW12	ES-349474	SW TACT SKHHAM004A
TR1	ET-354414	TR DTC144ES
WP1	EW-394623J	CORD FFC P1.25 L=110 15P
WP2	EW-389313J	CORD FFC P1.25 L=120 13P
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-368825	OSC X'TAL MX-38T 32.768KHZ

10. VIF UNIT

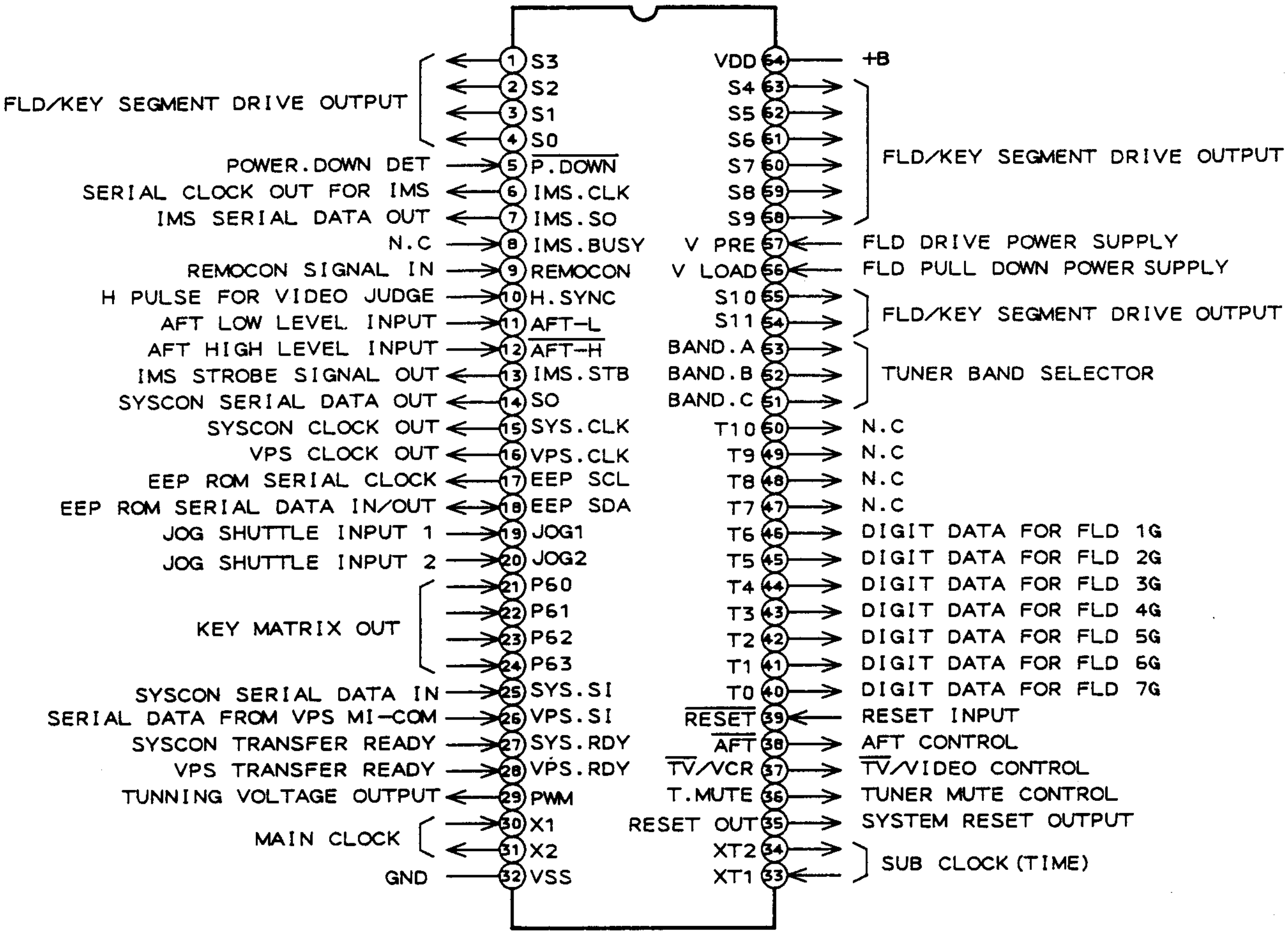
Ref.No.	Part No.	Description
CF1	EH-714628	FILTER SAW SAF39.5MZ70Z
CF2	EH-373921	FILTER CE SFE6.0MB
CF3	EH-373919	FILTER CE TPS6.0MB
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3	EO-725954J	COIL SIF DET 6F16263A3
L4	EO-714614	COIL RF 6F16115B1
L5	EO-714610	COIL RF 6F16113B1
L6	EO-387798J	COIL FIX 1 EL0405SKI 150K
L7	EO-387798J	COIL FIX 1 EL0405SKI 150K
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR51	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

V53C464A (64K ×4 BIT D-RAM)



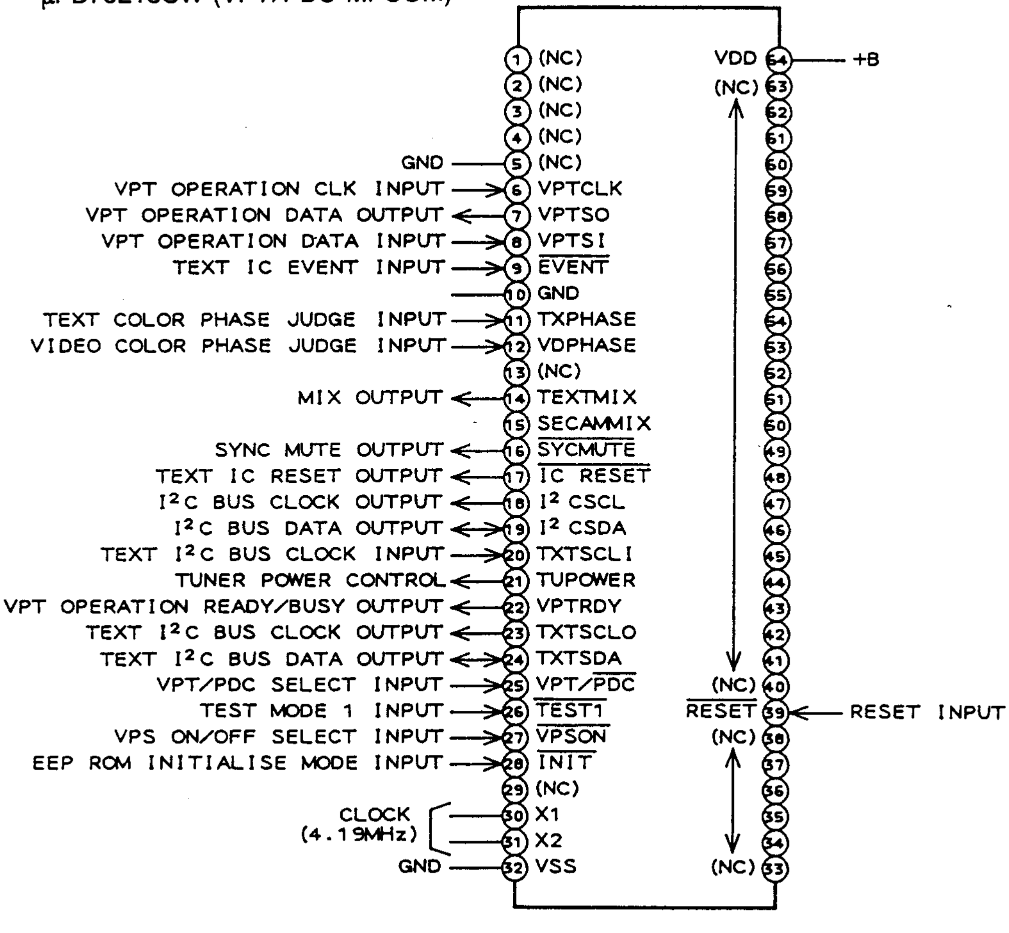
OE 1
WE 4
CAS 16
RAS 5
RAS CLOCK GENERATOR
CAS CLOCK GANERATOR
WE CLOCK GENERATOR
OE CLOCK LOGIC
DATA I/O BUS
COLUMN DECODERS
SENSE AMPLIFIERS
I/O BUFFER
2 I/O 1
3 I/O 2
15 I/O 3
17 I/O 4
X_0–X_7
REFRESH COUNTER
8
256×4
A0~2
6
8
A3~7
10
14
ADDRESS BUFFERS AND PREDECODERS
X_0–X_7
ROW DECODERS
256
MEMORY ARRAY

μPD75217ACW (OPERATION MI-COM)



FLD/KEY SEGMENT DRIVE OUTPUT
1 S3
2 S2
3 S1
4 S0
POWER.DOWN DET → 5 P.DOWN
SERIAL CLOCK OUT FOR IMS ← 6 IMS.CLK
IMS SERIAL DATA OUT ← 7 IMS.SO
N.C → 8 IMS.BUSY
REMOCON SIGNAL IN → 9 REMOCON
H PULSE FOR VIDEO JUDGE → 10 H.SYNC
AFT LOW LEVEL INPUT → 11 AFT-L
AFT HIGH LEVEL INPUT → 12 AFT-H
IMS STROBE SIGNAL OUT ← 13 IMS.STB
SYSCON SERIAL DATA OUT ← 14 SO
SYSCON CLOCK OUT ← 15 SYS.CLK
VPS CLOCK OUT ← 16 VPS.CLK
EEP ROM SERIAL CLOCK ← 17 EEP SCL
EEP ROM SERIAL DATA IN/OUT ↔ 18 EEP SDA
JOG SHUTTLE INPUT 1 → 19 JOG1
JOG SHUTTLE INPUT 2 → 20 JOG2
KEY MATRIX OUT
21 P60
22 P61
23 P62
24 P63
SYSCON SERIAL DATA IN → 25 SYS.SI
SERIAL DATA FROM VPS MI-COM → 26 VPS.SI
SYSCON TRANSFER READY → 27 SYS.RDY
VPS TRANSFER READY → 28 VPS.RDY
TUNNING VOLTAGE OUTPUT ← 29 PWM
MAIN CLOCK
30 X1
31 X2
GND 32 VSS
+B → 64 VDD
63 S4
62 S5
61 S6
60 S7
59 S8
58 S9
FLD/KEY SEGMENT DRIVE OUTPUT
FLD DRIVE POWER SUPPLY → 57 V PRE
FLD PULL DOWN POWER SUPPLY → 56 V LOAD
55 S10
54 S11
FLD/KEY SEGMENT DRIVE OUTPUT
53 BAND.A
52 BAND.B
51 BAND.C
TUNER BAND SELECTOR
50 T10 → N.C
49 T9 → N.C
48 T8 → N.C
47 T7 → N.C
46 T6 → DIGIT DATA FOR FLD 1G
45 T5 → DIGIT DATA FOR FLD 2G
44 T4 → DIGIT DATA FOR FLD 3G
43 T3 → DIGIT DATA FOR FLD 4G
42 T2 → DIGIT DATA FOR FLD 5G
41 T1 → DIGIT DATA FOR FLD 6G
40 T0 → DIGIT DATA FOR FLD 7G
39 RESET ← RESET INPUT
38 AFT → AFT CONTROL
37 TV/VCR → TV/VIDEO CONTROL
36 T.MUTE → TUNER MUTE CONTROL
35 RESET OUT → SYSTEM RESET OUTPUT
34 XT2
33 XT1
SUB CLOCK (TIME)

μPD75218CW (VPT/PDC MI-COM)



1 (NC)
2 (NC)
3 (NC)
4 (NC)
GND 5 (NC)
VPT OPERATION CLK INPUT → 6 VPTCLK
VPT OPERATION DATA OUTPUT ← 7 VPTSO
VPT OPERATION DATA INPUT → 8 VPTSI
TEXT IC EVENT INPUT → 9 EVENT
10 GND
TEXT COLOR PHASE JUDGE INPUT → 11 TXPHASE
VIDEO COLOR PHASE JUDGE INPUT → 12 VDPHASE
13 (NC)
MIX OUTPUT ← 14 TEXTMIX
15 SECAMMIX
SYNC MUTE OUTPUT ← 16 SYCMUTE
TEXT IC RESET OUTPUT ← 17 IC RESET
I²C BUS CLOCK OUTPUT ← 18 I² CSCL
I²C BUS DATA OUTPUT ↔ 19 I² CSDA
TEXT I²C BUS CLOCK INPUT → 20 TXTSCLI
TUNER POWER CONTROL ← 21 TUPOWER
VPT OPERATION READY/BUSY OUTPUT ← 22 VPTRDY
TEXT I²C BUS CLOCK OUTPUT ← 23 TXTSCLO
TEXT I²C BUS DATA OUTPUT ↔ 24 TXTSDA
VPT/PDC SELECT INPUT → 25 VPT/PDC
TEST MODE 1 INPUT → 26 TEST1
VPS ON/OFF SELECT INPUT → 27 VPSON
EEP ROM INITIALISE MODE INPUT → 28 INIT
29 (NC)
CLOCK (4.19MHz)
30 X1
31 X2
GND 32 VSS
+B 64 VDD
63 (NC)
62
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40 (NC)
39 RESET ← RESET INPUT
38 (NC)
37
36
35
34
33 (NC)

Ref.No.	Part No.	Description
L404	EO-345880	COIL FIX 1 EL0606SKI 820J
L405	EO-354600	COIL FIX 1 LAP02 F05 101K
L410	EO-345874	COIL FIX 1 EL0606SKI 330J
L470	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L472	EO-345880	COIL FIX 1 EL0606SKI 820J
L474	EO-388161J	COIL FIX 1 EL0405SKI 560K
L500	EO-345880	COIL FIX 1 EL0606SKI 820J
L501	EO-353900	COIL FIX 1 LAP02 F05 150K
L505	EO-345880	COIL FIX 1 EL0606SKI 820J
L506	EO-345880	COIL FIX 1 EL0606SKI 820J
L507	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L508	EO-403937J	COIL FIX 1 EL0405RA T05 4R7J
L509	EO-345880	COIL FIX 1 EL0606SKI 820J
L510	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L511	EO-381195J	COIL FIX 1 EL0405SKI 331K
L512	EO-381197J	COIL FIX 1 EL0405SKI 471K
L570	EO-345880	COIL FIX 1 EL0606SKI 820J
MD1	BV-387610J	RF CONVERTER YAA21-0453 EA
J101	EJ-387614J	PIN J T6353-ABCB YL BK 4P
R214	ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-375777	TR 2SC2926S P,Q
TR3	ET-353899	TR 2SA1317 S,T,U
TR4	ET-353899	TR 2SA1317 S,T,U
TR5	ET-353899	TR 2SA1317 S,T,U
TR7	ET-353899	TR 2SA1317 S,T,U
TR8	ET-354414	TR DTC144ES
TR9	ET-354414	TR DTC144ES
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR15	ET-353897	TR DTC114ES
TR17	ET-397160J	TR 2SC3330 R,S,T,U,V
TR18	ET-397160J	TR 2SC3330 R,S,T,U,V
TR19	ET-354414	TR DTC144ES
TR101	ET-354414	TR DTC144ES
TR102	ET-356336	TR DTA114ES
TR103	ET-354414	TR DTC144ES
TR104	ET-353899	TR 2SA1317 S,T,U
TR105	ET-353899	TR 2SA1317 S,T,U
TR107	ET-397160J	TR 2SC3330 R,S,T,U,V
TR109	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-356336	TR DTA114ES
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-388338J	TR 2SB1425 S,E
TR210	ET-405622J	TR 2SD2061 E,F
TR301	ET-354414	TR DTC144ES
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-354415	TR DTA144ES
TR306	ET-354414	TR DTC144ES
TR307	ET-373985	TR DTA144TS
TR308	ET-373985	TR DTA144TS
TR309	ET-373985	TR DTA144TS
TR310	ET-354414	TR DTC144ES
TR312	ET-354415	TR DTA144ES
TR401	ET-356336	TR DTA114ES
TR404	ET-354364	TR DTC143TS
TR406	ET-397160J	TR 2SC3330 R,S,T,U,V
TR407	ET-353899	TR 2SA1317 S,T,U
TR408	ET-354414	TR DTC144ES
TR409	ET-360399	TR DTC114TS
TR410	ET-354414	TR DTC144ES
TR414	ET-388338J	TR 2SB1425 S,E
TR415	ET-353899	TR 2SA1317 S,T,U
TR417	ET-360399	TR DTC114TS
TR421	ET-364040	TR UN421D
TR423	ET-356336	TR DTA114ES
TR470	ET-353899	TR 2SA1317 S,T,U
TR471	ET-353899	TR 2SA1317 S,T,U
TR501	ET-353897	TR DTC114ES
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V
TR507	ET-397160J	TR 2SC3330 R,S,T,U,V
TR508	ET-356336	TR DTA114ES
TR509	ET-397160J	TR 2SC3330 R,S,T,U,V
TR510	ET-397160J	TR 2SC3330 R,S,T,U,V
TR511	ET-397160J	TR 2SC3330 R,S,T,U,V
TR512	ET-397160J	TR 2SC3330 R,S,T,U,V
TR515	ET-397160J	TR 2SC3330 R,S,T,U,V
TR570	ET-397160J	TR 2SC3330 R,S,T,U,V
TR571	ET-397160J	TR 2SC3330 R,S,T,U,V
TR572	ET-354414	TR DTC144ES
VR301	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR401	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR402	EV-404300J	R S-FIX H T05 KVSF637T 0.1W472
VR403	EV-405659J	R S-FIX H T05 KVSF637T 0.1W682
VR404	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
WF201	EW-404138J1	CORD KX MA-POW L=225 12P
X301	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X500	EI-381632J	OSC X'TAL 86686 4.433619MHZ
1	BV-403236J1	VIF UNIT KX EA
2	EE-408417J	TV TUNER VTSS6AZV EA
3	SP-388307J	PANEL REAR JACK EA

7. MAIN (B) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-307572	D SILICON H 1SS131
D801	ED-307572	D SILICON H 1SS131
FL801	EO-388362J	COIL OSC 1 V1102
IC601	EI-405722J	IC UPD6450CX-515
IC602	EI-403469J	IC MM1068XS
IC801	EI-388360J	IC BA7765AS
L601	EO-345881	COIL FIX 1 EL0606SKI 101J
L602	EO-345876	COIL FIX 1 EL0606SKI 470J
L604	EO-351866	COIL FIX 1 LAP02 F05 330K
L605	EO-345881	COIL FIX 1 EL0606SKI 101J
L801	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L802	EO-390716J	COIL FIX 1 LHL06TB T05 272J
TR601	ET-353899	TR 2SA1317 S,T,U
TR602	ET-354414	TR DTC144ES
TR603	ET-397160J	TR 2SC3330 R,S,T,U,V
TR607	ET-353899	TR 2SA1317 S,T,U
TR608	ET-353899	TR 2SA1317 S,T,U
TR801	ET-397160J	TR 2SC3330 R,S,T,U,V
VC601	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VR801	EV-403967J	R S-FIX V T05EVNDCAA03 0.1W332
VR802	EV-403968J	R S-FIX V T05EVNDCAA03 0.1W473
X601	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X602	EI-403467J	OSC CE CSB500F40 15.680KHZ

8. PRE-AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
IC1	EI-403250J	IC LA7376
L1	EO-376858	COIL FIX 1 LF-5.0S F05 560K
L2	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-376859	COIL FIX 1 LF-5.0S F05 8R2K
L5	EO-381191J	COIL FIX 1 EL0405SKI 181K
L6	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L7	EO-376603	COIL FIX 1 LF-5.0S F05 150K
L8	EO-381193J	COIL FIX 1 EL0405SKI 271K
L9	EO-345880	COIL FIX 1 EL0606SKI 820J
L10	EO-345880	COIL FIX 1 EL0606SKI 820J
L13	EO-345880	COIL FIX 1 EL0606SKI 820J
L14	EO-376860	COIL FIX 1 LF-5.0S F05 820K
PS1	EJ-381075J	SOCKET HOUSING 5062-30-10-12
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-364040	TR UN421D
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-353899	TR 2SA1317 S,T,U
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-364040	TR UN421D
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR13	ET-353899	TR 2SA1317 S,T,U
TR14	ET-353899	TR 2SA1317 S,T,U
TR15	ET-360399	TR DTC114TS
TR16	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR3	EV-405248J	R S-FIX V T05EVNDCAA03 0.1W471
WP1	EW-403256J1	CORD FFC P1.25 L=230 12P

9. OPERATION P.C BOARD

Ref.No.	Part No.	Description
D10	ED-403279J	D ZENER H UTZJ9.1B
D11	ED-403278J	D ZENER H UTZJ7.5B
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D25	ED-307572	D SILICON H 1SS131
D26	ED-307572	D SILICON H 1SS131
D27	ED-307572	D SILICON H 1SS131
D43	ED-307572	D SILICON H 1SS131
FL1	EM-401077J	IND FL FV496G CHARACTER
IB1	EH-403945J	COMP R RGLE9X 103J
IB2	EH-383083J	COMP R RGLE3X 103J
IC1	EI-408391J1	IC UPD75217CW-146 JBXOPP2
IC2	EI-408393J	IC ST24C01B1
IC3	EI-373955	IC S-8053ALR
PH1	ET-381637J2	DETECTOR GP1U521X
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
PS2	EJ-387497J	SOCKET HOUSING 5062-30-10-13
SW1A	ES-408404J	SW TACT EVQ 235 07K T05 [260]
SW1B	ES-408405J	SW TACT EVQ 235 09K T05 [261/262]
SW2	ES-349474	SW TACT SKHHAM004A
SW3	ES-349474	SW TACT SKHHAM004A
SW4	ES-349474	SW TACT SKHHAM004A
SW5	ES-349474	SW TACT SKHHAM004A
SW6	ES-349474	SW TACT SKHHAM004A
SW7	ES-349474	SW TACT SKHHAM004A
SW8	ES-349474	SW TACT SKHHAM004A
SW9	ES-349474	SW TACT SKHHAM004A
SW12	ES-349474	SW TACT SKHHAM004A
TR1	ET-354414	TR DTC144ES
WP1	EW-394623J	CORD FFC P1.25 L=110 15P
WP2	EW-389313J	CORD FFC P1.25 L=120 13P
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-368825	OSC X'TAL MX-38T 32.768KHZ

10. VIF UNIT

Ref.No.	Part No.	Description
CF1	EH-714626	FILTER SAW SAF36.9MZ70Z
CF2	EH-373920	FILTER CE SFE5.5MB
CF3	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
IC1	EI-368809	IC M51496P
L1	EO-387800J	COIL FIX 1 EL0405SKI 2R7K
L3	EO-725953J	COIL SIF DET 6F16263A2
L4	EO-714616	COIL RF 6F16115B3
L5	EO-714613	COIL RF 6R16113B3
L6	EO-387799J	COIL FIX 1 EL0405SKI 180K
L7	EO-387799J	COIL FIX 1 EL0405SKI 180K
L8	EO-387802J	COIL FIX 1 EL0405SKI 330K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-713614	TR CHIP 2SA1235 E,F
VR2	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR51	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

11. POWER SUPPLY P.C BOARD

Ref.No.	Part No.	Description
C1	EC-406634J	C EC V SXE12 222M 25.0DC
C2	EC-363490	C EC V CUT SME 222M 16.0DC
C3	EC-406635J	C EC V SXE16 222M 35.0DC
C4	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C5	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C10	EC-405612J	C EC V T05 SXE4 4R7M 50.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-511907	D SILICON 1N4002 100/1.0A
D6	*ED-511907	D SILICON 1N4002 100/1.0A
D7	*ED-511907	D SILICON 1N4002 100/1.0A
D8	*ED-511907	D SILICON 1N4002 100/1.0A
D9	*ED-511907	D SILICON 1N4002 100/1.0A
D10	*ED-511907	D SILICON 1N4002 100/1.0A
D11	*ED-511907	D SILICON 1N4002 100/1.0A
D12	*ED-511907	D SILICON 1N4002 100/1.0A
D13	ED-405373J	D ZENER H MTZJ16A T26
D14	ED-404032J	D ZENER H UTZJ39A
D15	ED-405524J	D ZENER H MTZJ36A T26
D16	*ED-404029J	D ZENER H UTZJ10B T26
D17	*ED-511907	D SILICON 1N4002 100/1.0A
D18	*ED-511907	D SILICON 1N4002 100/1.0A
FR1	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR2	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR3	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR4	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR5	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
TR1	*ET-381175J	TR 2SD1856
TR2	*ET-366365	TR 2SB1185 E,F
TR3	*ET-405622J	TR 2SD2061 E,F
TR4	*ET-405622J	TR 2SD2061 E,F
TR5	*ET-405622J	TR 2SD2061 E,F
TR6	*ET-391025J	TR 2SD2012
TR7	*ET-366365	TR 2SB1185 E,F

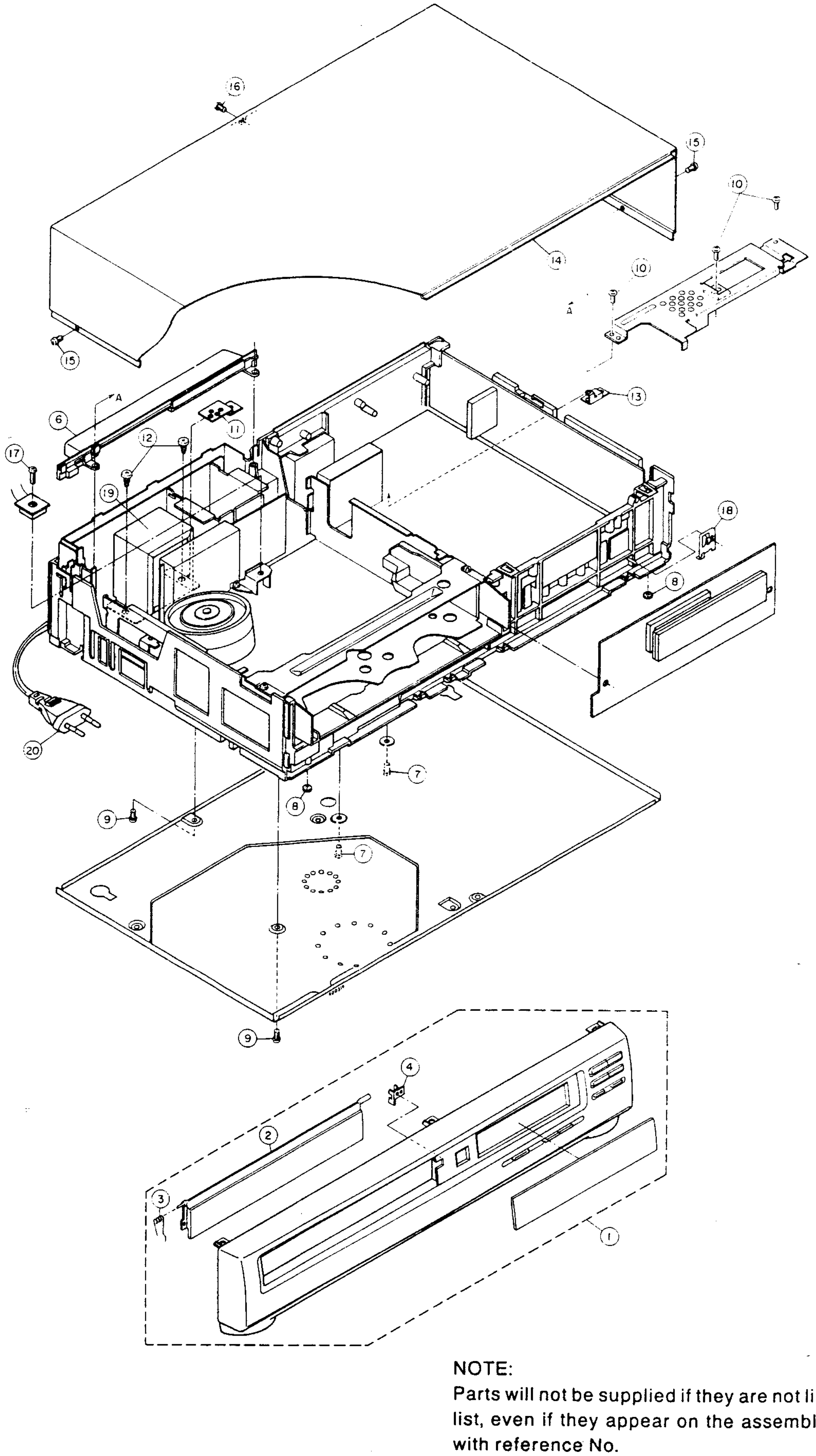
12. FINAL ASSEMBLY BLOCK

Ref.No.	Part No.	Description
1A	BD-404391J	PANEL FRONT VS-F260EA PART
1B	BD-407459J	PANEL FRONT VS-F261EA PART
1C	BD-407460J1	PANEL FRONT VS-F262EA PART
2A	SE-404390J	MASK CASSETTE (J) VS-F260 (E)
2B	SE-409258J	MASK CASSETTE VS-F261 (E)
2C	SE-408200J1	MASK CASSETTE VS-F262 (E)
3	ZG-387370J	SP MASK
4	SZ-401874J	STOPPER MASK
6	SC-387353J	COVER TRANS
7	ZS-362378	PLX BID30X10STL CMT
8	SA-387507J	FOOT SX
9	ZS-358936	ST BID30X06STL CMT
10	ZS-378341	PLX BID30X12STL CMT
11	ZG-387505J	PLATE EARTH
12	ZS-373962	PLX BID40X10STL CMT
13	ZG-387354J	PLATE EARTH (2)
14	SP-407479J	COVER UPPER JX
15	ZS-385611J	DT BID26X06STL BNI
16	ZS-391046J	PLX BID26X10STL BNI
17	ZS-357946	PLX PAN30X10STL CMT C080
18	ZG-392214J1	PLATE EARTH (3)
19	*BT-403252J	TRANS POW V1130 EA
20	*EW-404003M	AC CORD 200 SA-2 WITH TUBE

13. ACCASSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2	AV-B1038A010A	REMOCON BLK RC-V250E

FINAL ASSEMBLY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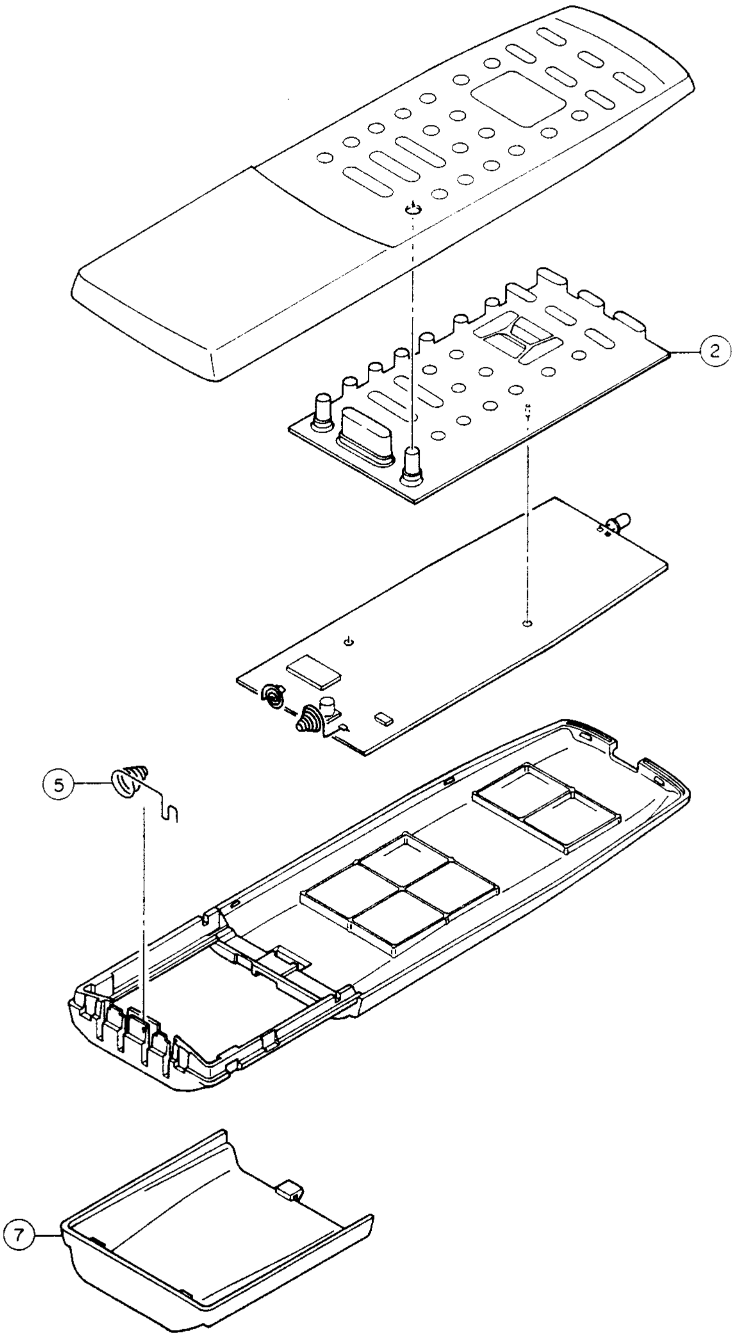
NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

6-5. REMOCON BLK

- **MODEL VS-F260, F261, F265, F280EK/EO/EOH**

REMOCON RC-V250E



REMOCON RC-V250E

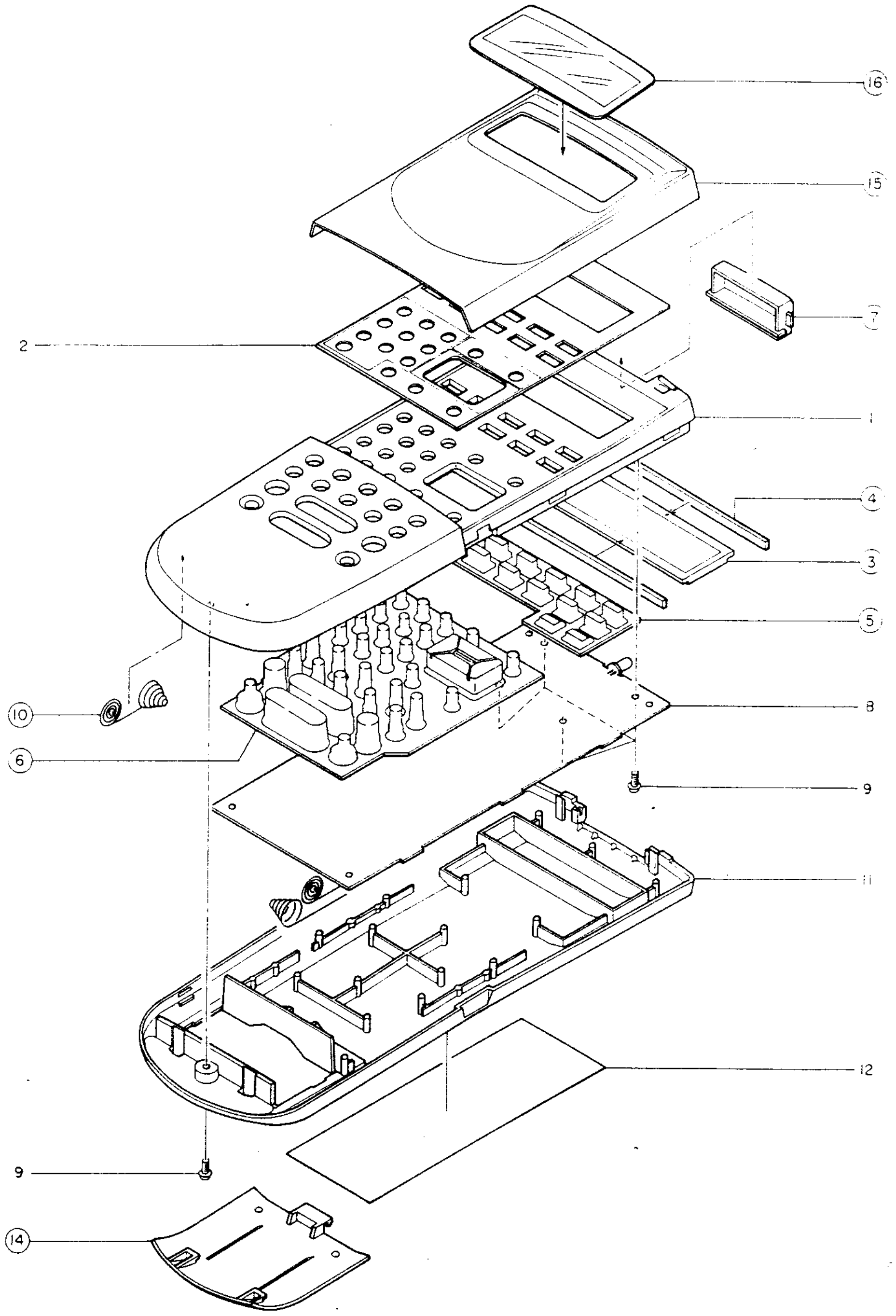
Ref.No.	Part No.	Description
2	MB-407424J	KEY RUBBER
5	ZG-406719J	TERMINAL BATTERY (A3)
7	SC-407425J	COVER BATTERY

REMOCON P.C BOARD RC-V250E

Ref.No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
D2	ED-386031J	D SILICON CHIP MA110-TW
D3	ED-386031J	D SILICON CHIP MA110-TW
D4	ED-386031J	D SILICON CHIP MA110-TW
IC1	EI-376112	IC UPD6122G
TR1	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
X1	EI-390687J	OSC CE CSU455PL 455KHZ
1	ZG-406720J	TERMINAL BATTERY (A1)
2	ZG-406722J	TERMINAL BATTERY (A2)

• MODEL VS-F270, F275, F290

REMOCON RC-V252E



REMOCON RC-V252E (G)

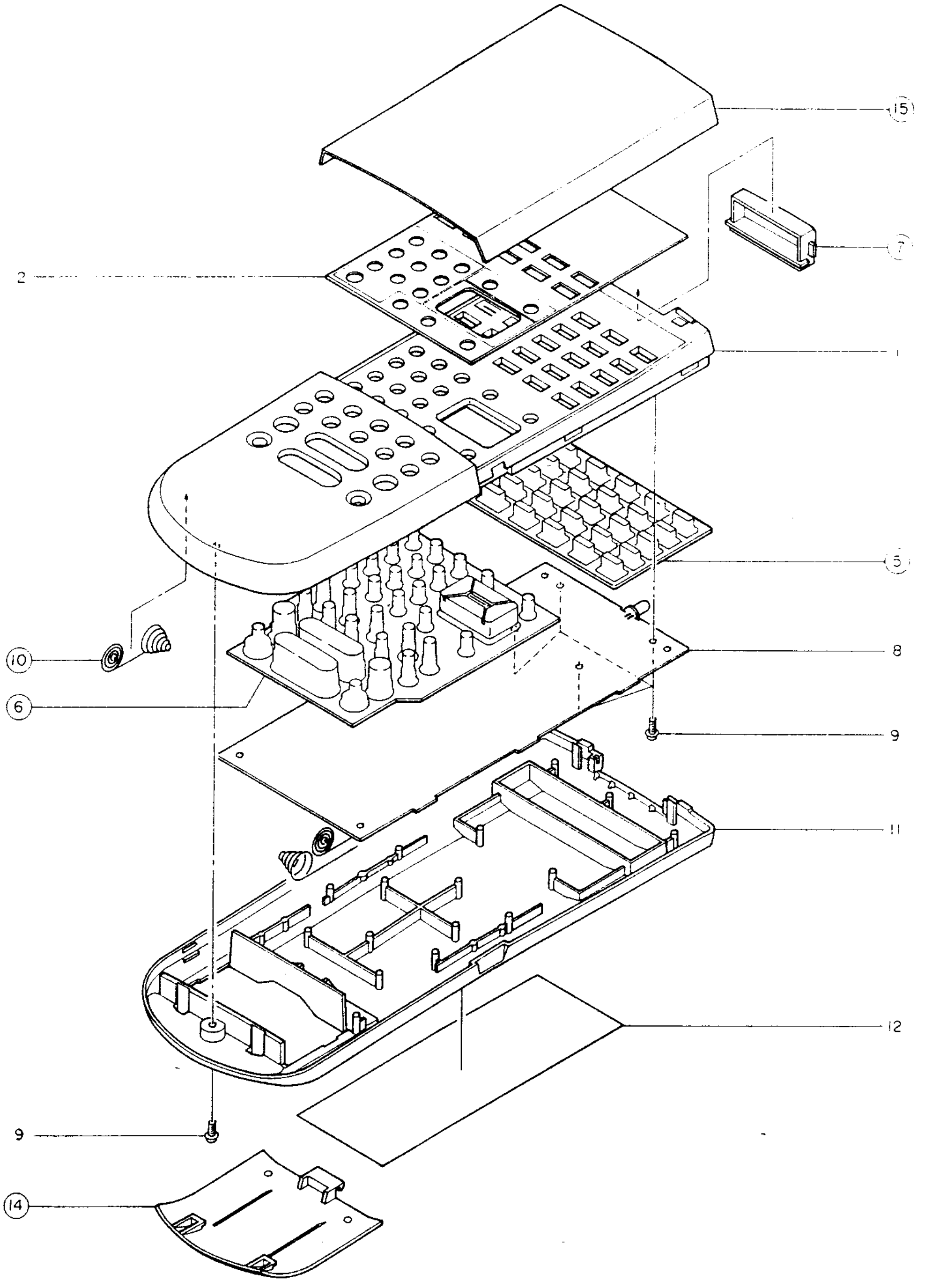
Ref.No.	Part No.	Description
3	EM-403448J	IND LCD LF5381G ENGLISH
4	EJ-403095J	TERMINAL LCD (3) B1014
5	MB-403107J	KEY RUBBER (S2)
6	MB-406738J	KEY RUBBER (L)-2
7	SE-403111J	FILTER
9	ZS-374389	PT BID20X06STL BNI
10	ZG-403100J1	TERMINAL BATTERY (+-)
14	SC-406730J	COVER BATTERY (2)
15	SP-406731J	DOOR PANEL (L2)
16	SP-403096J1	WINDOW LCD

REMOCON P.C BOARD RC-V252E (G)

Ref.No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
IC1	EI-408408J1	IC M50933-128FP JXLCDR2
IC2	EI-400672J	IC S-8052ALB-LE
TR1	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
X1	EI-368825	OSC X'TAL MX-38T 32.768KHZ
X2	EI-403451J	OSC CE CSB1200J 1.200MHZ
1	ZG-403098J	TERMINAL BATTERY (+)
2	ZG-403099J	TERMINAL BATTERY (-)

- **MODEL VS-F280EOG-V**

REMOCON RC-V251G



REMOCON RC-V251G

Ref.No.	Part No.	Description
5	MB-406737J	KEY RUBBER (M6)
6	MB-406738J	KEY RUBBER (L)-2
7	SE-403111J	FILTER
9	ZS-374389	PT BID20X06STL BNI
10	ZG-403100J1	TERMINAL BATTERY (+-)
14	SC-406730J	COVER BATTERY (2)
15	SP-406739J	DOOR PANEL (V)-G2

REMOCON P.C BOARD RC-V251G

Ref.No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
D2	ED-386031J	D SILICON CHIP MA110-TW
D3	ED-386031J	D SILICON CHIP MA110-TW
D4	ED-386031J	D SILICON CHIP MA110-TW
IC1	EI-376112	IC UPD6122G
TR1	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
X1	EI-390687J	OSC CE CSU455PL 455KHZ
1	ZG-403098J	TERMINAL BATTERY (+)
2	ZG-403099J	TERMINAL BATTERY (-)

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EDG/EM/EOH/ES MODELS

Part No.	Ref. No.
AVB1038A010A	20-2A
AVB1042A010C	20-2B
BAV1130A500A	5-4A
BAV1130A510A	5-4B
BAV1130A600B	5-1A
BAV1130A600D	5-1B
BAV1130A600G	5-1C
BAV1130A600H	5-1E
BAV1130A600J	5-1D
BAV1130A610B	5-2B
BAV1130A610C	5-2A
BAV1130A610D	5-2C
BAV1132A500C	5-4C
BAV1146A630C	5-3A
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EC403880J	13-C20	ED366443	6-D406	EH394684J	17-FL101	EO345865	17-L201
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ZW389923J	4-6
ZW401776J	3-34

ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION
A	Audio or Analogue
AC	Alternating Current
ACC	Automatic Color Control
A/C	Audio and Control
ADJ	ADJust (ment)
AFC	Automatic Frequency Control
AFT	Automatic Fine Tuning
AGC	Automatic Gain Control
AH	Audio Head
AL	ALways (voltage)
ALC	Automatic Level Control
A-SW.P	Audio SWitching Pulse
A-MUTE	Audio MUTE
ANT	ANTenna
APC	Automatic Phase Control
ASSY	ASSemblY
BAL	BALance
B DOWN	Break DOWN
BGP	Burst Gate Pulse
BLK	BLocK or BLacK
BPF	Band Pass Filter
BU	Back Up (voltage)
B/W	Black and White
C	Chroma or Color
CCD	Charge Coupled Device
CCIR	Comité Consultatif International des Radio communications
CH (ch)	CHannel (channel)
CLK	CLocK
CM	Capstan Motor
CN	CoNnector
COMP	COMParator
CSW	Cassette SWitch
CSYNC	Composite SYNC
CTL	ConTrol
CUE	CUE
DAC	Digital to Analog Converter
DC	Direct Current
DEMOD	DEMODulator
DET	DETetct (DETector)
DL	Delay Line
DM	Drum Motor
DOC	Drop Out Compensator
D.P.E	Drum Phase Error
D.PG	Drum Pulse Generator
EE	Electronic to Electronic
EF	Emitter Follower
EMPHA	EMPHAsis
ENV	ENVelope
EP	Extended Play
EP ROM	Erasable Programmable ROM
EQ	EQualizer
FE	Full track Erase
FF	Flip-Flop or Fast Foward
FG	Frequency Generator
Fig	Figure
FLD	FLuorescent Display
FM	Frequency Modulation
Fo	resonance Frequency
FREQ	FREQuency
GND	GrouND
H	Horizontal
HP	Horizontal (sync) pulse
HPF	High Pass Filter
HQ	High Quality System
IC	Integrated Circuit
ID	IDentification
IDL	IDLe (Voltage)
IMS	Interactive Monitor System
INS	INSert
INV	INVerter
L	Left
LED	Light Emitting Diode
LIM	LIMitter
LM	Loading Motor
LM STP	Loading Motor STop
LP	Long Play
LPF	Low Pass Filter
ME-SECAM	Middle East SECAM
MI-COM	MIcro COMputer
MM	Mono-stayble Multi
MOD	MODulator
MRS	Motor ReverSe
NG	Noise Gate
NICAM	Near Instanteneous Compand Audio Multiplex
NON-LIN	NON-LINear
N.T.S.C.	National Television System Committee
OSC	OSCillator
PAL	Phase Alternation by Line
PB	Play Back
PCB (P.C.B)	Printed Circuit Board
P-COM	Phase-COMparator
P DOWN	Power DOWN
PG	Pulse Generator
P.I.P	Picture In Picture
PL, PLG	PLunger (PLunGer)
PRG (PGM)	PRoGram (ProGraM)
PU	Pick UP (head, pulse)
PWR	PoWeR
Q	Quality factor
R	Right
RAM	Random Access Memory
REC	RECord
REF	REFerence
REF-V	REFerence Vertical signal
REG	REGulator
REV (REVW)	REView (REVieW)
REW	REWind
RF	Radio Frequency
ROM	Read Only Memory
R.S SW	Record-Safety SWitch
RST (RES)	ReSet (RESet)
RVS	ReVerSe
S	Sensor, Shield
SAW	Surface Acoustic Wave
SC	SimulCast
S CLK	Serial CLocK
SECAM	SÉquentiel Couleur À Mémoire
S & H	Sample and Hold
SLP	Super Long Play
SP	Standard Play
SPD	SPeeD
SRP	Supply Reel Pulse
SRV	SeRVo
SOW	Sync On Word
STBY	STandBY
S.VHS	Super VHS
SW	SWitch
SW'NG	SWitchiNG
SWP	SWitching Pulse
SYNC	SYNChronize
T-AUDIO	Tuner AUDIO
TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
TRK	TRacKing
TRP	Take up Reel Pulse
T/U	Take Up
TV	TeleVision
UHF	Ultra High Frequency
UNR	UNRegulated (voltage)
V	Vertical or Video
VASS	Video Address Search System
VCO	Voltage Controlled Oscillator
VH	Video Head
VHF	Very High Frequency
VHS	Video Home System
VIF	Video Intermediate Frequency
VISS	Video Index Search System
VJ	Video Judge
VM	Voltage for Memory
VOB	Video On Blank
VOW	Video On Word
VP	Vertical (sync) Pulse
VPS	Video Program System
VPT	Video Programming by video Text
VT	Voltage for Tuning
WHT	WHiTe
Y	Luminance
2H	2 Hour (SP)
4H	4 Hour (LP)
6H	6 Hour (SLP/EP)

AKAI

MODEL VS-F260, 261, 262
MODEL VS-F265, 270, 275
MODEL VS-F280, 290

SCHEMATIC DIAGRAMS AND PC BOARDS

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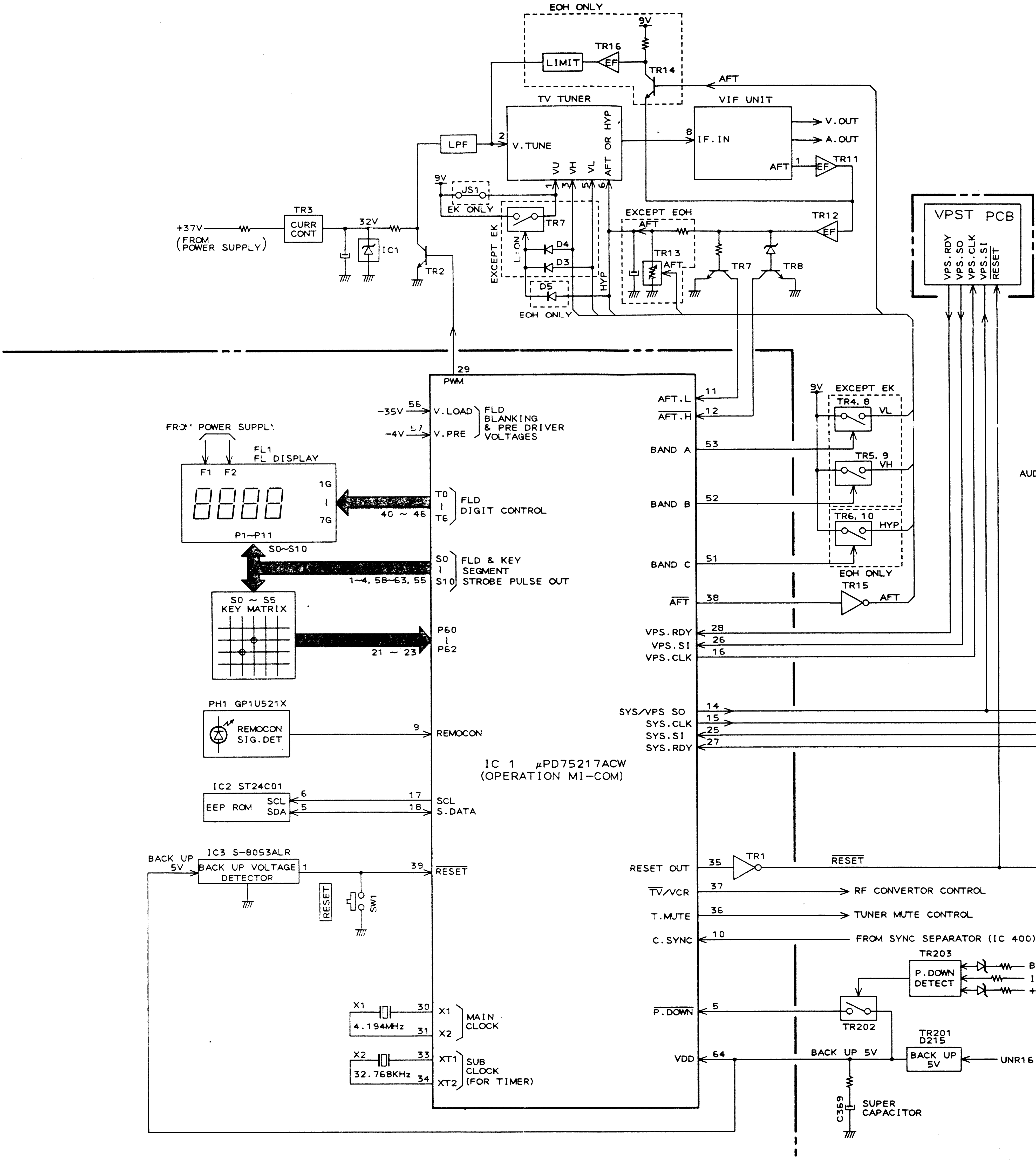
IV. INFORMATION OF ICs 42

Use these schematic diagrams and PC boards together with the provided service manual.

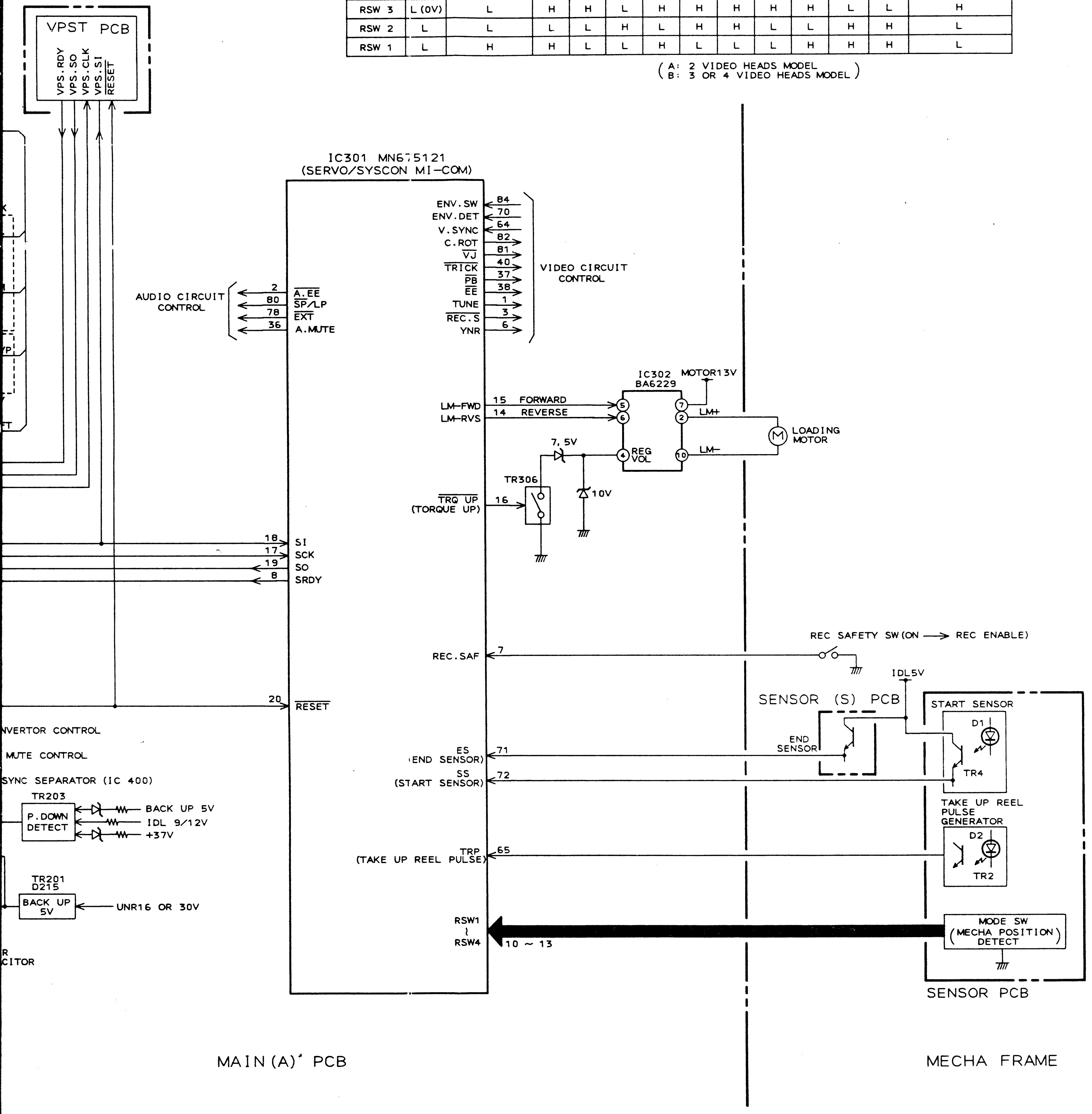
CATEGORY CODE USED IN THIS MANUAL

CATEGORY CODE	TYPE	MODEL NUMBER
JBX	2 VIDEO HEAD TYPE	VS-F260 EA/EK/EM/EO/ES VS-F260 EDG/EOH VS-F261 EA VS-F262 EA VS-F265 EOH VS-F270 EOG VS-F275 EOH VS-F280 EK/EO/EOH/EOG-V VS-F290 EOH
JLX	3 VIDEO HEAD TYPE	
JLX-L	3 VIDEO HEAD L-TYPE	
JFX	4 VIDEO HEAD TYPE	
JFX-L	4 VIDEO HEAD L-TYPE	
JTX	4 VIDEO HEAD & HI-FI STEREO TYPE	

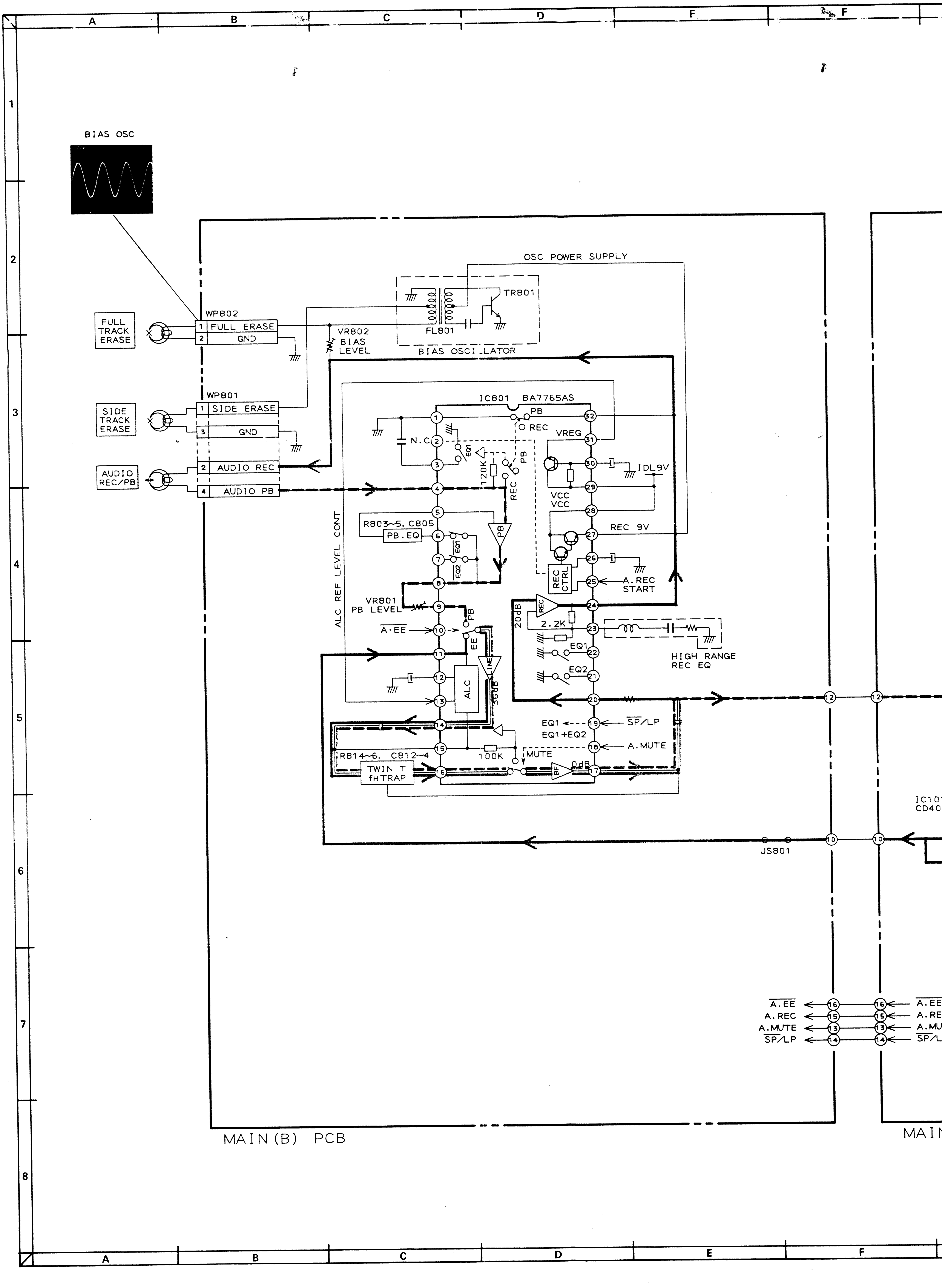

EOH ONLY
9V
TR16
LIMIT
EF
TR14
AFT
TV TUNER
VIF UNIT
V.OUT
A.OUT
LPF
2
V.TUNE
VU
VH
VL
AFT OR HYP
8
IF.IN
AFT
1
TR11
EF
9V
JS1
EK ONLY
EXCEPT EK
TR7
L:ON
D4
D3
D5
EOH ONLY
HYP
EXCEPT EOH
AFT
TR13
AFT
TR12
EF
TR7
TR8
+37V
(FROM POWER SUPPLY)
TR3
CURR CONT
32V
IC1
TR2
VPST PCB
VPS.RDY
VPS.SO
VPS.CLK
VPS.SI
RESET
29
PWM
-35V
56
V.LOAD
-4V
57
V.PRE
FLD BLANKING & PRE DRIVER VOLTAGES
FROM POWER SUPPLY
FL1
FL DISPLAY
F1
F2
1G
7G
P1~P11
T0
T6
40 ~ 46
FLD DIGIT CONTROL
S0~S10
S0
S10
1~4, 58~63, 55
FLD & KEY SEGMENT STROBE PULSE OUT
S0 ~ S5
KEY MATRIX
P60
P62
21 ~ 23
PH1 GP1U521X
REMOCON SIG.DET
9
REMOCON
IC 1 μPD75217ACW
(OPERATION MI-COM)
IC2 ST24C01
EEP ROM
SCL
SDA
6
5
17
18
SCL
S.DATA
IC3 S-8053ALR
BACK UP 5V
BACK UP VOLTAGE DETECTOR
1
39
RESET
RESET
SW1
X1
4.194MHz
30
31
X1
X2
MAIN CLOCK
X2
32.768KHz
33
34
XT1
XT2
SUB CLOCK (FOR TIMER)
AFT.L
11
AFT.H
12
BAND A
53
BAND B
52
BAND C
51
AFT
38
9V
EXCEPT EK
TR4, 8
VL
TR5, 9
VH
TR6, 10
HYP
EOH ONLY
TR15
AFT
VPS.RDY
28
VPS.SI
26
VPS.CLK
16
SYS/VPS SO
14
SYS.CLK
15
SYS.SI
25
SYS.RDY
27
AUD
RESET OUT
35
TR1
RESET
TV/VCR
37
RF CONVERTOR CONTROL
T.MUTE
36
TUNER MUTE CONTROL
C.SYNC
10
FROM SYNC SEPARATOR (IC 400)
TR203
P.DOWN DETECT
B
I
+
P.DOWN
5
TR202
VDD
64
BACK UP 5V
TR201
D215
BACK UP 5V
UNR16
C369
SUPER CAPACITOR
OPERATION (A) PCB

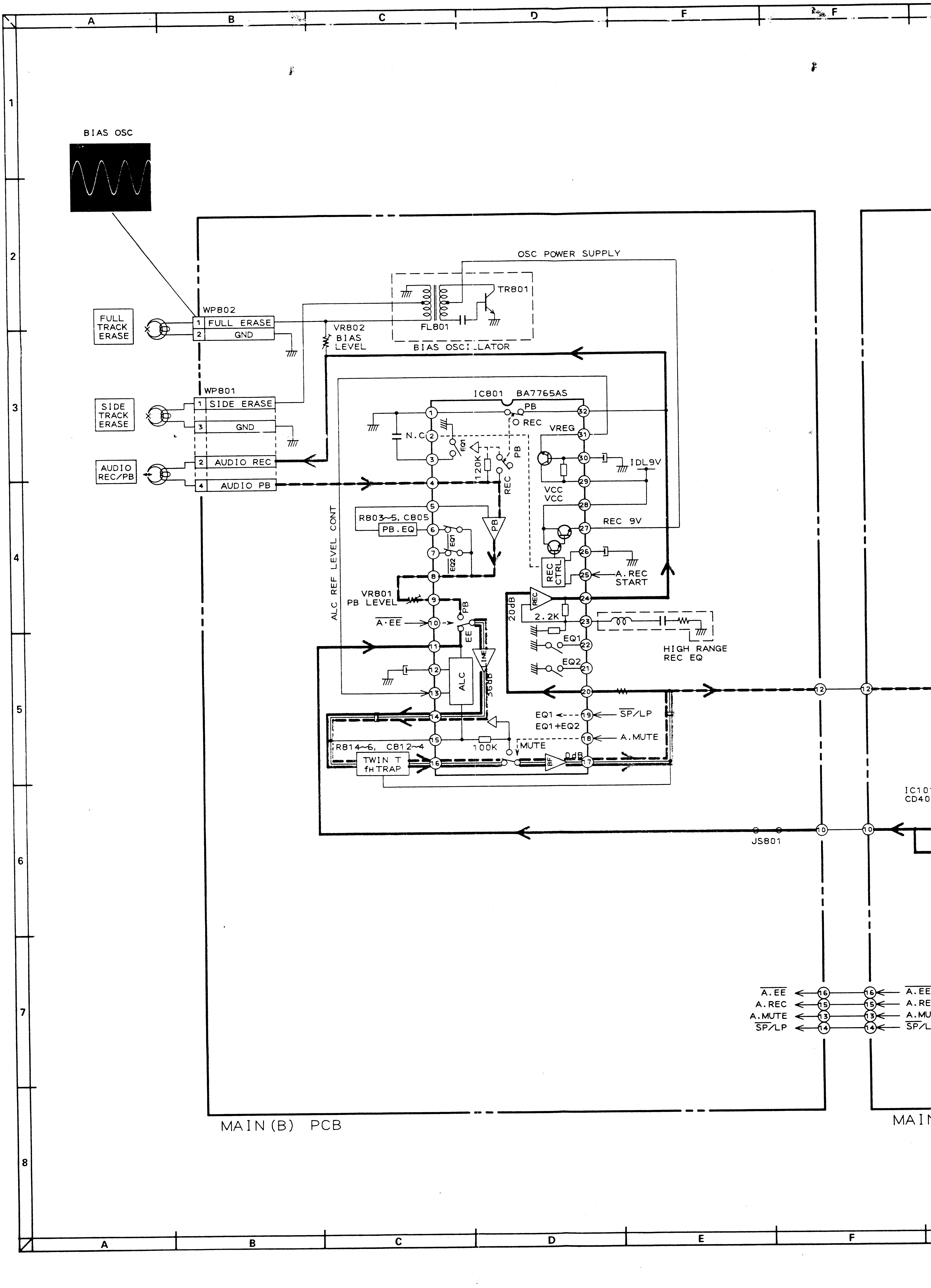
MODE / OUTPUT	EJECT	STOP (TAPE LOADED)	PAUSE/PLAY		PLAY		REVIEW		CUE		FF	REW	POWER OFF (WITH CASSETTE)
			A	B	A	B	A	B	A	B			
RSW 4	H (5V)	L	L	L	L	L	L	H	L	L	L	L	H
RSW 3	L (0V)	L	H	H	L	H	H	H	H	H	L	L	H
RSW 2	L	L	L	L	H	L	H	H	L	L	H	H	L
RSW 1	L	H	H	L	L	H	L	L	L	H	H	H	L

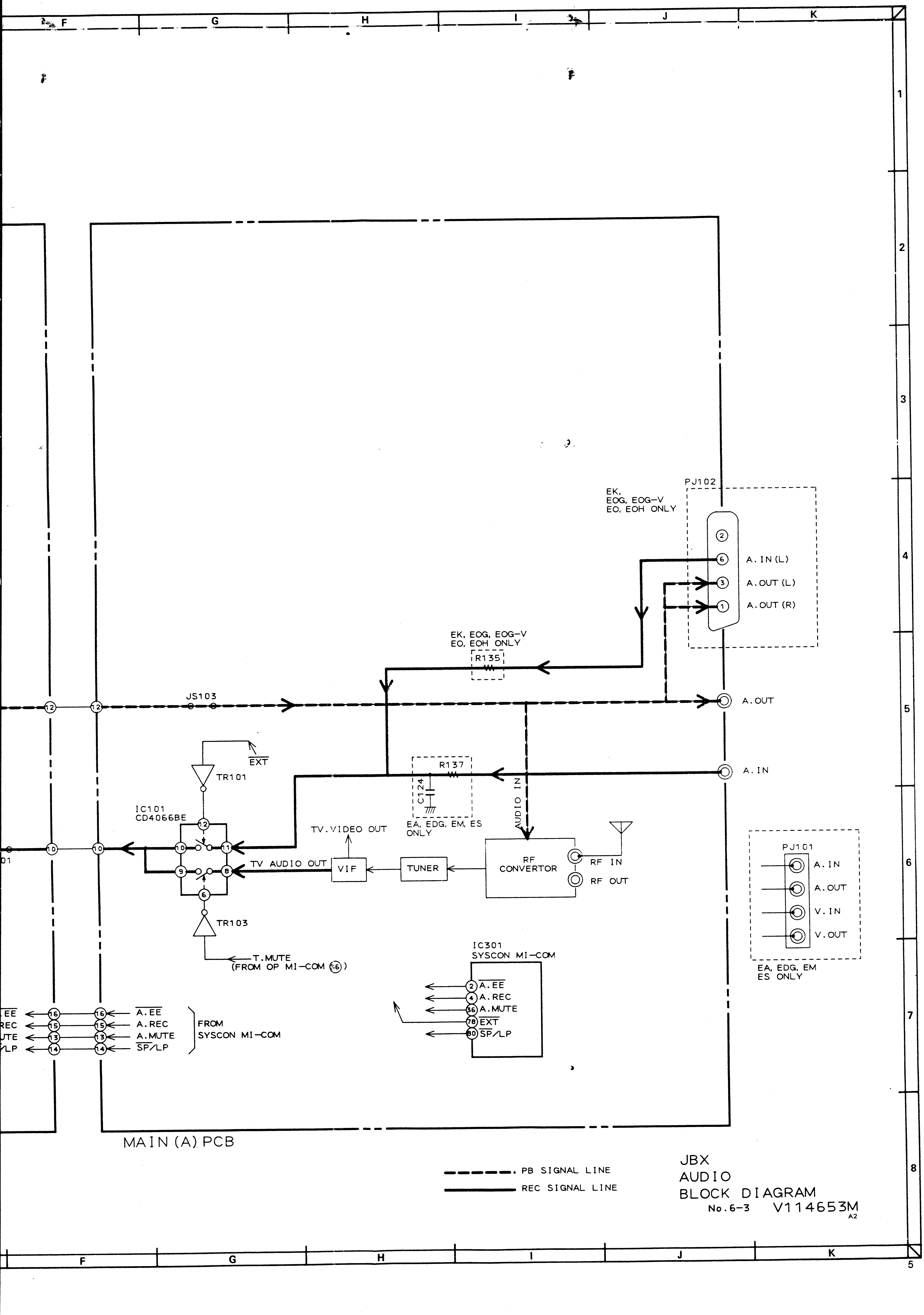
(A: 2 VIDEO HEADS MODEL
B: 3 OR 4 VIDEO HEADS MODEL)


VPST PCB
VPS.RDY
VPS.SO
VPS.CLK
VPS.SI
RESET
IC301 MN675121
(SERVO/SYSCON MI-COM)
AUDIO CIRCUIT CONTROL
2 A.EE
80 SP/LP
78 EXT
36 A.MUTE
ENV.SW 84
ENV.DET 70
V.SYNC 64
C.ROT 82
VJ 81
TRICK 40
PB 37
EE 38
TUNE 1
REC.S 3
YNR 6
VIDEO CIRCUIT CONTROL
IC302 BA6229
MOTOR13V
LM-FWD 15 FORWARD
LM-RVS 14 REVERSE
LM+
LM−
REG VOL
7, 5V
10V
TR306
TRQ UP (TORQUE UP) 16
LOADING MOTOR
18 SI
17 SCK
19 SO
8 SRDY
REC.SAF 7
REC SAFETY SW (ON → REC ENABLE)
IDL5V
20 RESET
SENSOR (S) PCB
END SENSOR
START SENSOR
D1
TR4
ES (END SENSOR) 71
SS (START SENSOR) 72
TAKE UP REEL PULSE GENERATOR
D2
TR2
TRP (TAKE UP REEL PULSE) 65
RSW1 ~ RSW4 10 ~ 13
MODE SW (MECHA POSITION DETECT)
SENSOR PCB
NVERTOR CONTROL
MUTE CONTROL
SYNC SEPARATOR (IC 400)
TR203
P.DOWN DETECT
BACK UP 5V
IDL 9/12V
+37V
TR201 D215
BACK UP 5V
UNR16 OR 30V
R
CITOR
MAIN (A)' PCB
MECHA FRAME

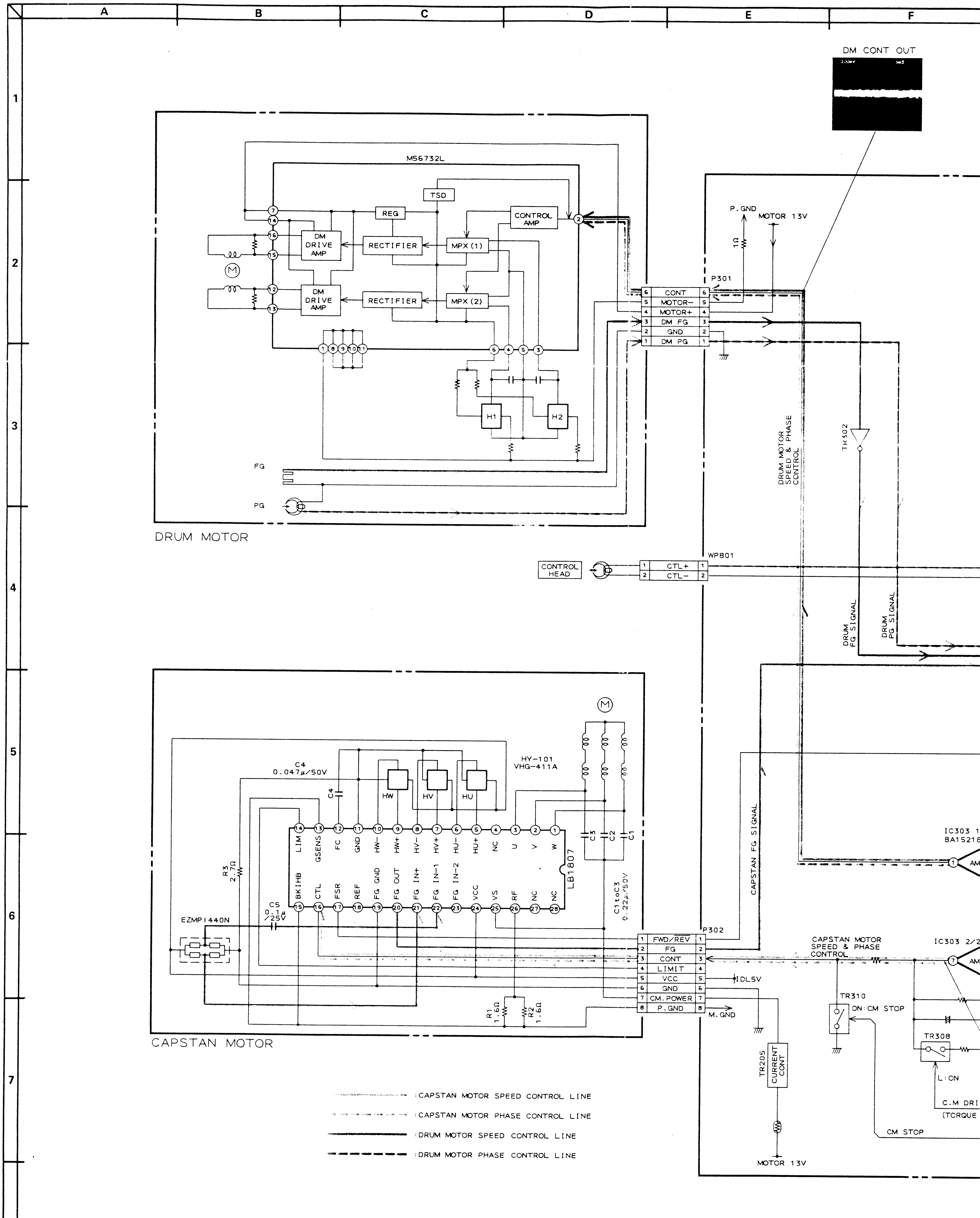
JBX
OPERATION & SYSCON
BLOCK DIAGRAM
No.6-1 V114651M
A2

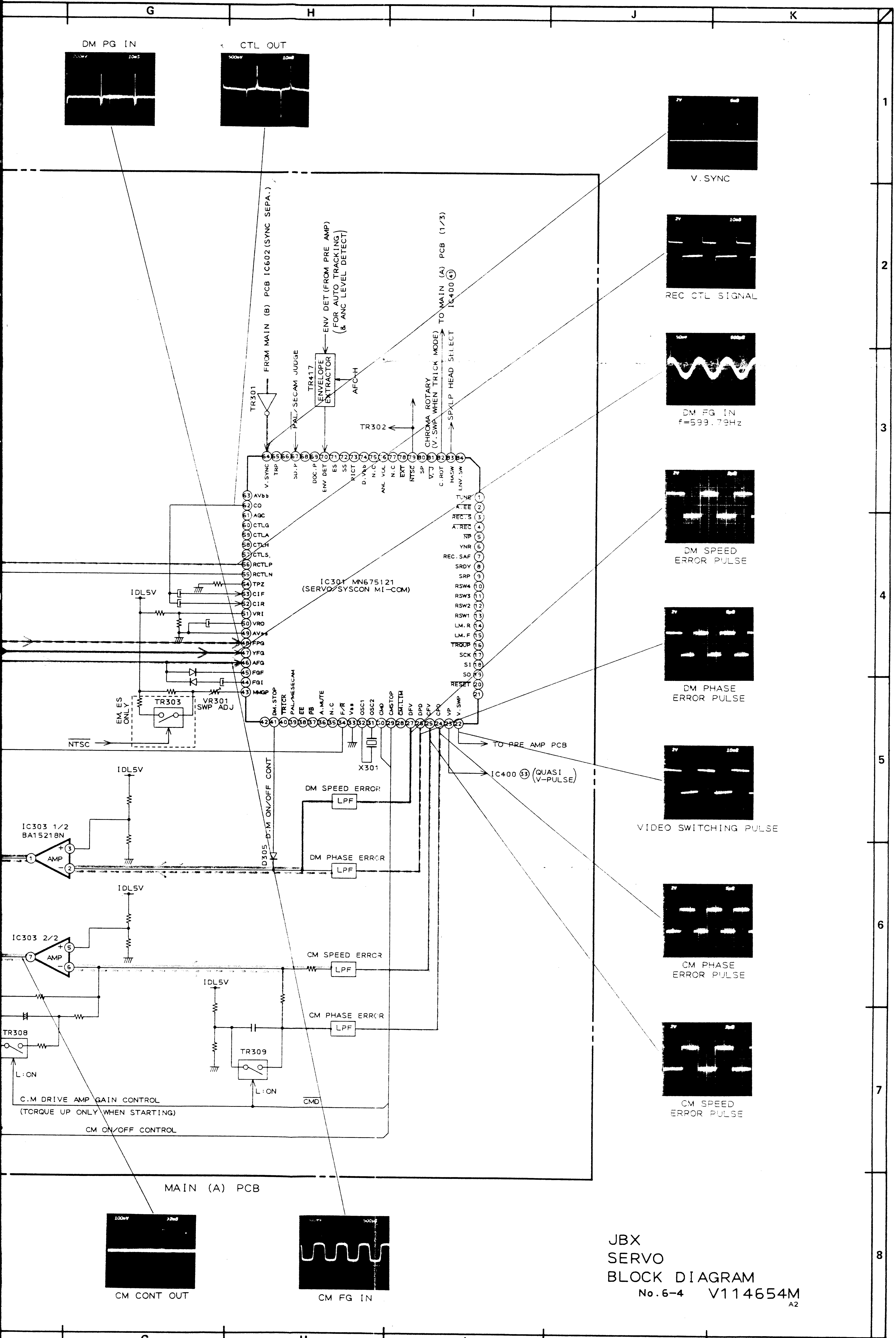

A
B
C
D
E
F
1
2
3
4
5
6
7
8
BIAS OSC
FULL TRACK ERASE
WP802
1 FULL ERASE
2 GND
SIDE TRACK ERASE
WP801
1 SIDE ERASE
3 GND
AUDIO REC/PB
2 AUDIO REC
4 AUDIO PB
OSC POWER SUPPLY
TR801
FL801
BIAS OSCILLATOR
VR802 BIAS LEVEL
IC801 BA7765AS
PB
REC
VREG
N.C
EQ1
120K
PB
REC
IDL9V
VCC
VCC
REC 9V
R803~5, C805
PB.EQ
EQ1
EQ2
PB
REC CTRL
A.REC START
ALC REF LEVEL CONT
VR801 PB LEVEL
A·EE
EE
PB
20dB
REC
2.2K
HIGH RANGE REC EQ
EQ1
EQ2
LINE
ALC
36dB
SP/LP
EQ1
EQ1+EQ2
A.MUTE
MUTE
100K
R814~6, C812~4
TWIN T fH TRAP
BF
0dB
JS801
A.EE
A.REC
A.MUTE
SP/LP
IC10
CD40
MAIN(B) PCB
MAI


A
B
C
D
F
F
1
2
3
4
5
6
7
8
BIAS OSC
FULL TRACK ERASE
WP802
1 FULL ERASE
2 GND
SIDE TRACK ERASE
WP801
1 SIDE ERASE
3 GND
AUDIO REC/PB
2 AUDIO REC
4 AUDIO PB
OSC POWER SUPPLY
TR801
FL801
BIAS OSCILLATOR
VR802 BIAS LEVEL
IC801 BA7765AS
PB
REC
N.C
EQ1
120K
PB
REC
VREG
IDL9V
VCC
VCC
REC 9V
R803~5, C805
PB.EQ
PB
EQ1
EQ2
REC CTRL
A.REC START
ALC REF LEVEL CONT
VR801 PB LEVEL
A·EE
PB
EE
LINE
ALC
36dB
20dB
REC
2.2K
EQ1
EQ2
HIGH RANGE REC EQ
EQ1
EQ1+EQ2
SP/LP
A.MUTE
MUTE
100K
R814~6, C812~4
TWIN T fH TRAP
BF
0dB
JS801
IC10
CD40
A.EE
A.REC
A.MUTE
SP/LP
A.EE
A.RE
A.MU
SP/L
MAIN(B) PCB
MAI

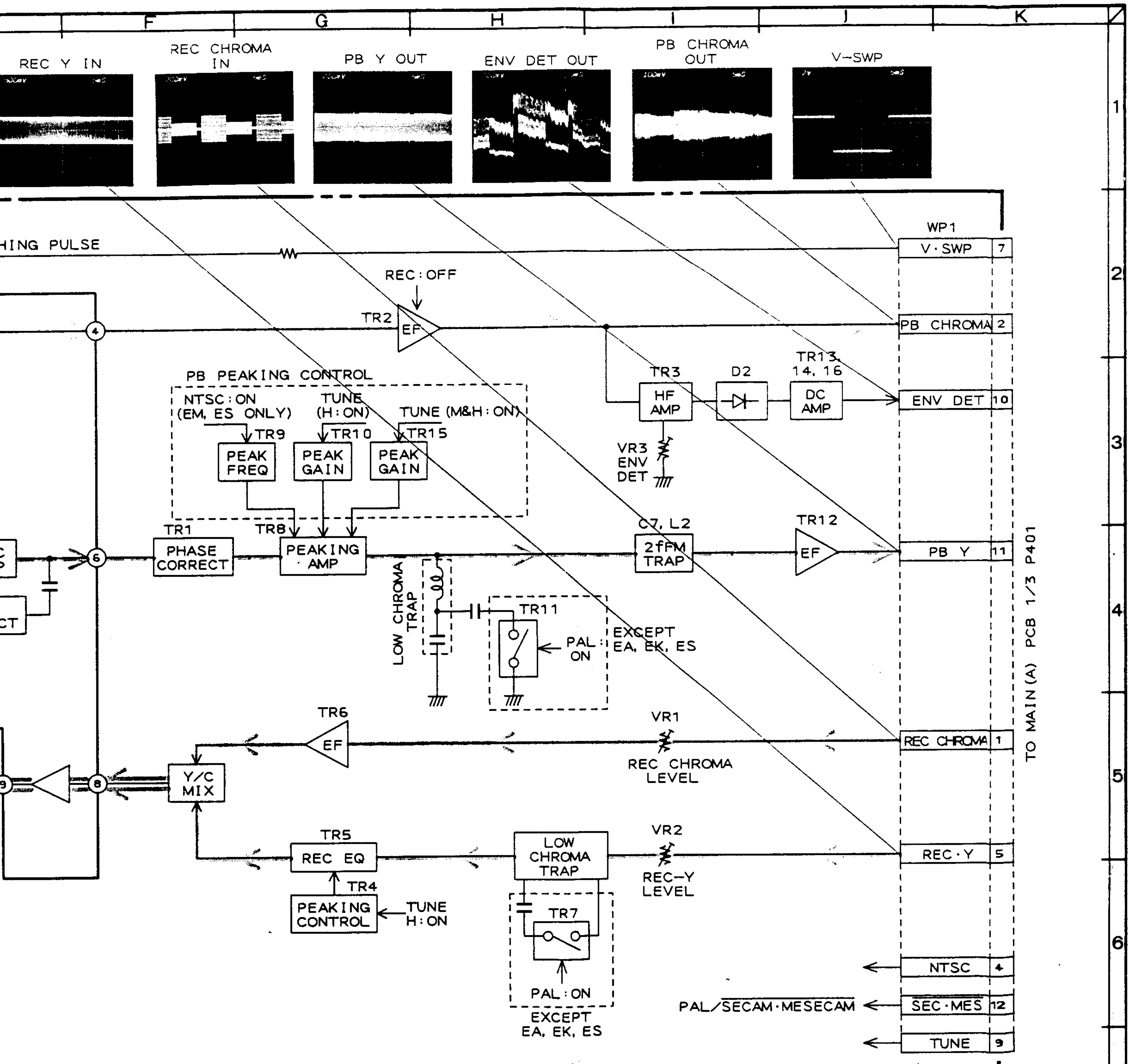

F
G
H
I
J
K
1
2
3
4
5
6
7
8
PJ102
EK,
EOG, EOG-V
EO, EOH ONLY
2
6
3
1
A. IN (L)
A. OUT (L)
A. OUT (R)
EK, EOG, EOG-V
EO, EOH ONLY
R135
JS103
12
12
A. OUT
EXT
TR101
R137
C124
AUDIO IN
A. IN
IC101
CD4066BE
12
10
11
9
8
6
10
10
01
TV. VIDEO OUT
TV AUDIO OUT
VIF
TUNER
RF
CONVERTOR
RF IN
RF OUT
EA, EDG, EM, ES
ONLY
PJ101
A. IN
A. OUT
V. IN
V. OUT
EA, EDG, EM
ES ONLY
TR103
T. MUTE
(FROM OP MI-COM 16)
IC301
SYSCON MI-COM
2 A.EE
4 A.REC
36 A.MUTE
78 EXT
80 SP/LP
EE
REC
UTE
/LP
16
15
13
14
16
15
13
14
A.EE
A.REC
A.MUTE
SP/LP
FROM
SYSCON MI-COM
MAIN (A) PCB
PB SIGNAL LINE
REC SIGNAL LINE
F
G
H
I
J
K
5

JBX
AUDIO
BLOCK DIAGRAM
No.6-3 V114653M
A2


A
B
C
D
E
F
1
2
3
4
5
6
7
8
DM CONT OUT
M56732L
TSD
REG
CONTROL AMP
DM DRIVE AMP
RECTIFIER
MPX (1)
MPX (2)
H1
H2
FG
PG
DRUM MOTOR
P.GND
MOTOR 13V
1Ω
P301
CONT
MOTOR−
MOTOR+
DM FG
GND
DM PG
DRUM MOTOR SPEED & PHASE CONTROL
TR302
CONTROL HEAD
WP801
CTL+
CTL−
DRUM FG SIGNAL
DRUM PG SIGNAL
HY−101
VHG−411A
C4 0.047μ/50V
HW
HV
HU
LIM
GSENS
FC
GND
HW−
HW+
HV−
HV+
HU−
HU+
NC
U
V
W
LB1807
BKIHB
CTL
FSR
REF
FG GND
FG OUT
FG IN+
FG IN−1
FG IN−2
VCC
VS
RF
NC
NC
C3
C2
C1
C1toC3 0.22μ/50V
R3 2.7Ω
C5 0.1μ /25V
EZMP1440N
R1 1.6Ω
R2 1.6Ω
CAPSTAN MOTOR
CAPSTAN FG SIGNAL
P302
FWD/REV
FG
CONT
LIMIT
VCC
GND
CM. POWER
P.GND
DL5V
M.GND
CAPSTAN MOTOR SPEED & PHASE CONTROL
IC303 1
BA1521
AM
IC303 2/2
TR310
ON:CM STOP
TR308
L:ON
C.M DRI
(TORQUE
CM STOP
TR205
CURRENT CONT
MOTOR 13V
:CAPSTAN MOTOR SPEED CONTROL LINE
:CAPSTAN MOTOR PHASE CONTROL LINE
:DRUM MOTOR SPEED CONTROL LINE
:DRUM MOTOR PHASE CONTROL LINE


G
H
I
J
K
1
2
3
4
5
6
7
8
DM PG IN
CTL OUT
V.SYNC
REC CTL SIGNAL
DM FG IN
f=599.79Hz
DM SPEED
ERROR PULSE
DM PHASE
ERROR PULSE
VIDEO SWITCHING PULSE
CM PHASE
ERROR PULSE
CM SPEED
ERROR PULSE
CM CONT OUT
CM FG IN
MAIN (A) PCB
FROM MAIN (B) PCB IC602 (SYNC SEPA.)
ENV DET (FROM PRE AMP)
(FOR AUTO TRACKING)
(& ANC LEVEL DETECT)
TO MAIN (A) PCB (1/3)
IC400 ㊶
CHROMA ROTARY
(V.SWA WHEN TRICK MODE)
SP/LP HEAD SELECT
TR301
PAL/SECAM JUDGE
TR417
ENVELOPE
EXTRACTOR
AFC-H
TR302
IC301 MN675121
(SERVO/SYSCON MI-COM)
V.SYNC
TRP
SD.P
DOC.P
ENV DET
ES
SS
RICT
D.Vdd
N.C
ANL VOL
N.C
EXT
NTSC
SP
V.J
C.ROT
HASW
ENV.SW
AVDD
CO
AGC
CTLG
CTLA
CTLH
CTLS
RCTLP
RCTLN
TPZ
CIF
CIR
VRI
VRO
AVss
FPG
YFG
AFG
FGF
FGI
MMGP
TUNE
A.EE
REC.S
A.REC
NP
YNR
REC.SAF
SRDY
SRP
RSW4
RSW3
RSW2
RSW1
LM.R
LM.F
TRQUP
SCK
SI
SO
RESET
DM.STOP
TRTCR
PAL/MESECAM
EE
FB
A.MUTE
N.C
F/R
Vss
OSC1
OSC2
CMO
CMSTOP
CM.LTM
DFV
DPD
CFV
CPD
VP
V.SWP
IDL5V
TR303
VR301
SWP ADJ
EM.ES ONLY
NTSC
X301
TO PRE AMP PCB
IC400 ㉝ (QUASI V-PULSE)
DM SPEED ERROR
LPF
DM PHASE ERROR
LPF
D.M ON/OFF CONT
D305
IC303 1/2
BA15218N
AMP
IC303 2/2
AMP
CM SPEED ERROR
LPF
CM PHASE ERROR
LPF
TR308
L:ON
TR309
L:ON
CMD
C.M DRIVE AMP GAIN CONTROL
(TORQUE UP ONLY WHEN STARTING)
CM ON/OFF CONTROL

JBX
SERVO
BLOCK DIAGRAM
No.6-4 V114654M
A2

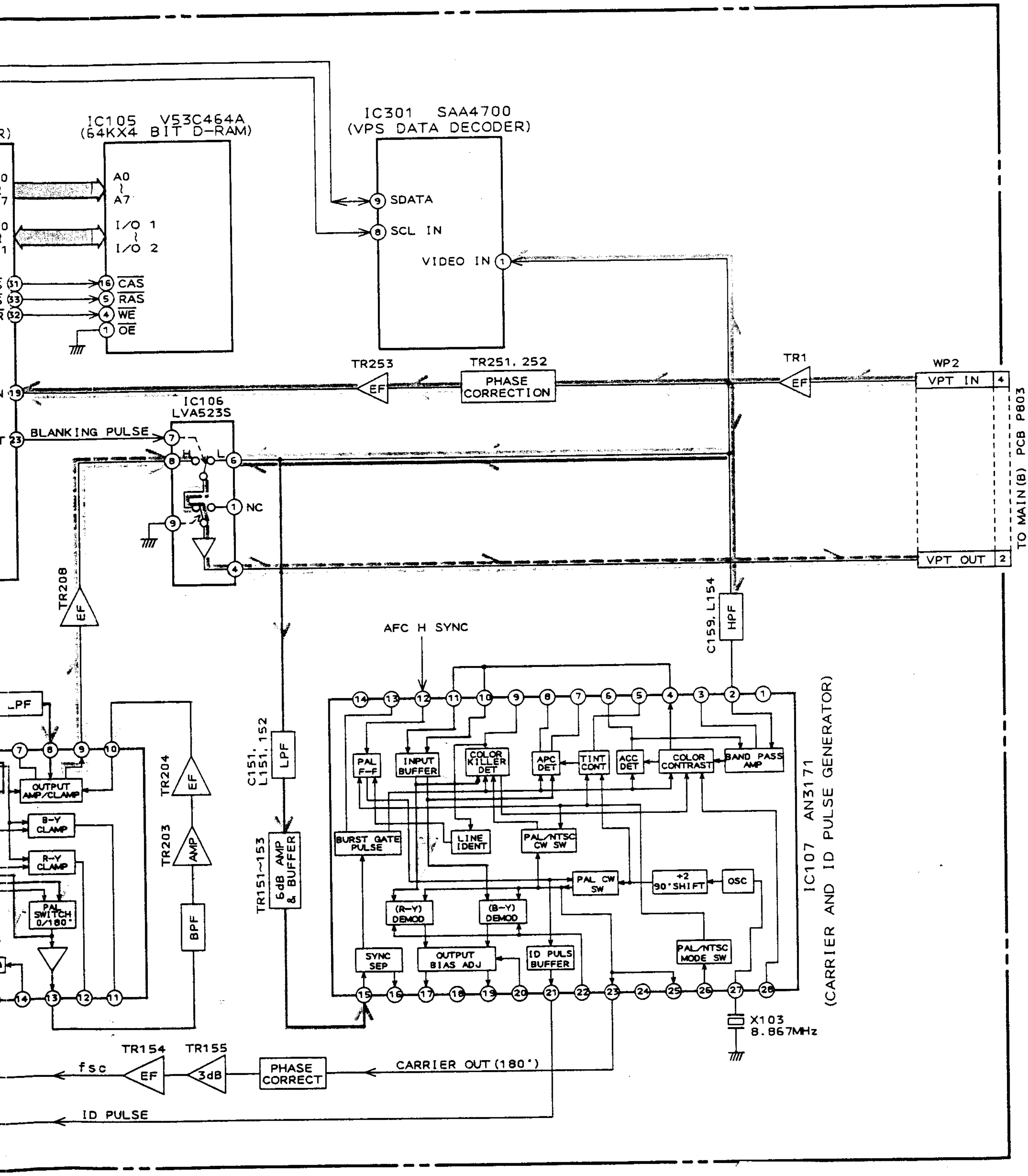

F
G
H
I
J
K
REC Y IN
REC CHROMA IN
PB Y OUT
ENV DET OUT
PB CHROMA OUT
V-SWP
1
HING PULSE
WP1
V·SWP 7
REC:OFF
TR2
EF
PB CHROMA 2
2
4
PB PEAKING CONTROL
NTSC:ON
(EM, ES ONLY)
TUNE
(H:ON)
TUNE (M&H:ON)
TR9
TR10
TR15
PEAK FREQ
PEAK GAIN
PEAK GAIN
TR3
HF AMP
D2
TR13, 14, 16
DC AMP
ENV DET 10
VR3
ENV
DET
3
TR1
PHASE CORRECT
TR8
PEAKING AMP
6
C7, L2
2fFM TRAP
TR12
EF
PB Y 11
LOW CHROMA TRAP
TR11
PAL:ON
EXCEPT
EA, EK, ES
CT
4
TO MAIN(A) PCB 1/3 P401
TR6
EF
VR1
REC CHROMA LEVEL
REC CHROMA 1
Y/C MIX
9
8
5
TR5
REC EQ
TR4
PEAKING CONTROL
TUNE
H:ON
LOW CHROMA TRAP
TR7
PAL:ON
EXCEPT
EA, EK, ES
VR2
REC-Y LEVEL
REC·Y 5
6
NTSC 4
PAL/SECAM·MESECAM
SEC·MES 12
TUNE 9

TUNE CONTROL LINE TRUTH TABLE

	DURING TUNING REC	TAPE MODE									
		S-VHS		HG		NORMAL		LOW		POOR	
		PB	REC	PB	REC	PB	REC	PB	REC	PB	REC
TUNE	L	L	M	L	M	M	H	M	H	H	H

PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE

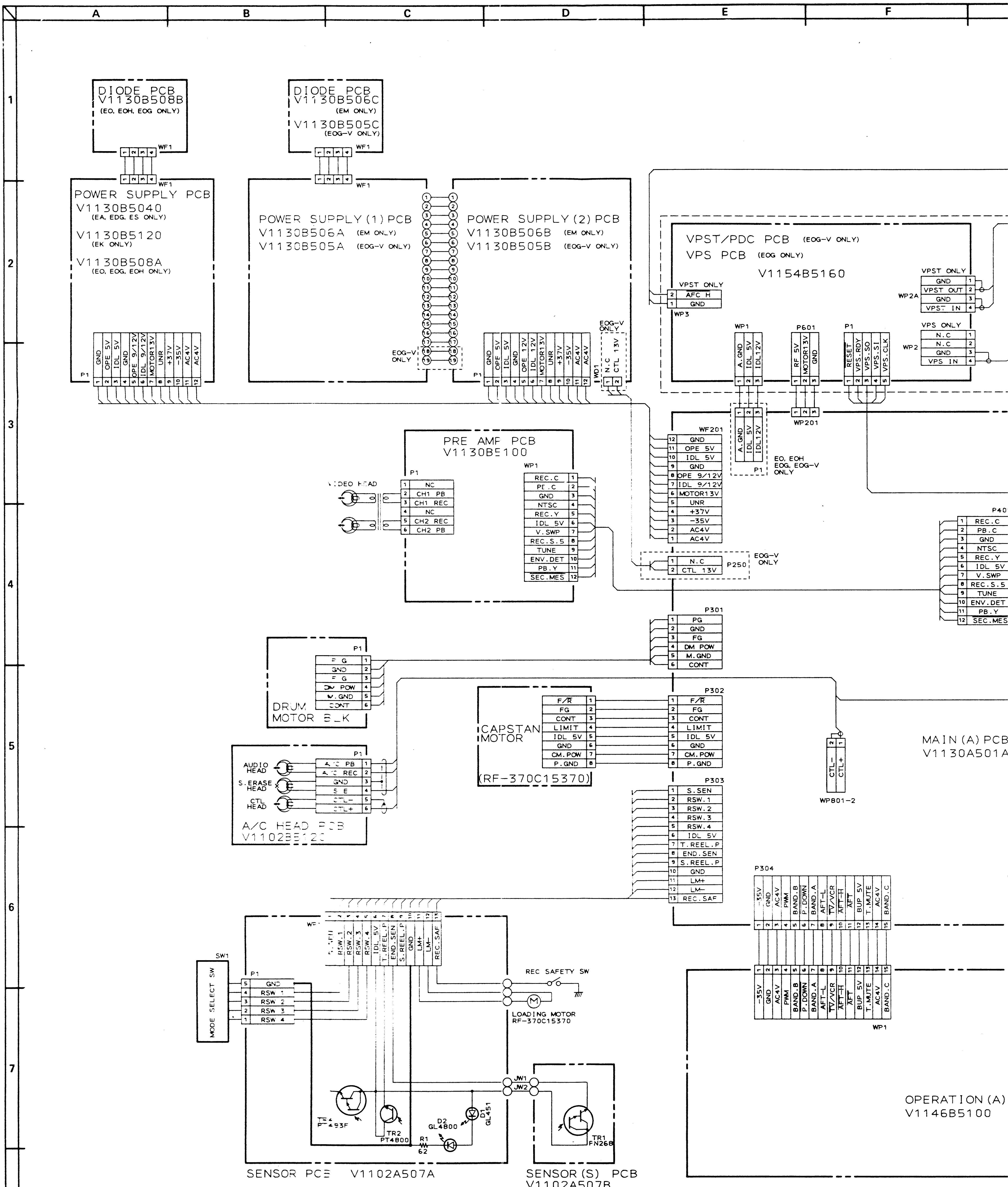
JBX
PRE AMP
BLOCK DIAGRAM
No.6-5 V114655M
A2

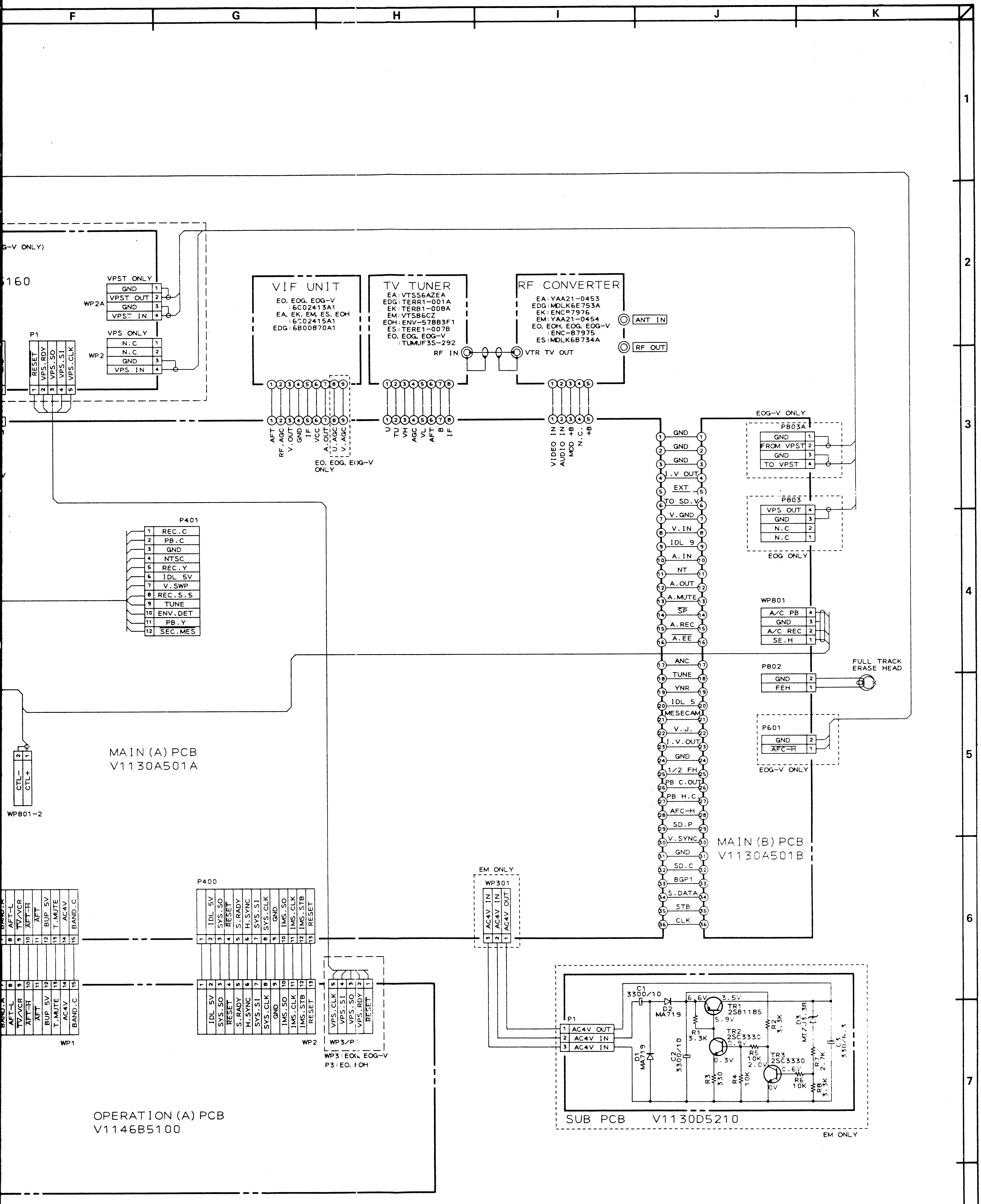

IC105 V53C464A
(64KX4 BIT D-RAM)
A0 ~ A7
I/O 1 ~ I/O 2
CAS
RAS
WE
OE
IC301 SAA4700
(VPS DATA DECODER)
SDATA
SCL IN
VIDEO IN
TR253
EF
TR251, 252
PHASE CORRECTION
TR1
EF
WP2
VPT IN
VPT OUT
TO MAIN(B) PCB P803
BLANKING PULSE
IC106
LVA523S
H
L
NC
TR208
EF
C159, L154
HPF
AFC H SYNC
C151, L151, 152
LPF
TR151~153
6dB AMP & BUFFER
LPF
OUTPUT AMP/CLAMP
B-Y CLAMP
R-Y CLAMP
PAL SWITCH 0/180°
TR204
EF
TR203
AMP
BPF
PAL F-F
INPUT BUFFER
COLOR KILLER DET
APC DET
TINT CONT
ACC DET
COLOR CONTRAST
BAND PASS AMP
BURST GATE PULSE
LINE IDENT
PAL/NTSC CW SW
PAL CW SW
÷2 90°SHIFT
OSC
(R-Y) DEMOD
(B-Y) DEMOD
SYNC SEP
OUTPUT BIAS ADJ
ID PULS BUFFER
PAL/NTSC MODE SW
IC107 AN3171
(CARRIER AND ID PULSE GENERATOR)
X103
8.867MHz
TR154
TR155
fsc
EF
3dB
PHASE CORRECT
CARRIER OUT (180°)
ID PULSE

———— Y IN(TUNER) SIGNAL
– – – – Y VPT SIGNAL
———— CHROMA IN(TUNER) SIGNAL
- - - - CHROMA VPT SIGNAL

VPST
BLOCK DIAGRAM

No.6-6 V114656M
A2

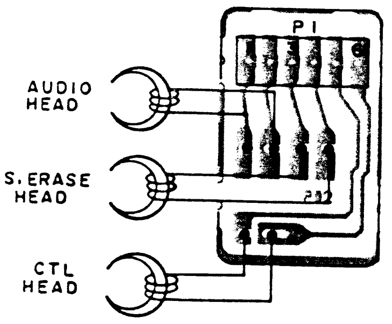

A B C D E F
1 2 3 4 5 6 7 8
DIODE PCB V1130B508B (EO, EOH, EOG ONLY)
DIODE PCB V1130B506C (EM ONLY)
V1130B505C (EOG-V ONLY)
WF1
POWER SUPPLY PCB
V1130B5040 (EA, EDG, ES ONLY)
V1130B5120 (EK ONLY)
V1130B508A (EO, EOG, EOH ONLY)
POWER SUPPLY (1) PCB
V1130B506A (EM ONLY)
V1130B505A (EOG-V ONLY)
POWER SUPPLY (2) PCB
V1130B506B (EM ONLY)
V1130B505B (EOG-V ONLY)
EOG-V ONLY
P1
GND
OPE 5V
IDL 5V
GND
OPE 9/12V
IDL 9/12V
MOTOR13V
UNR
+37V
-35V
AC4V
AC4V
OPE 12V
IDL 12V
WD1
N.C
CTL 13V
VPST/PDC PCB (EOG-V ONLY)
VPS PCB (EOG ONLY)
V1154B5160
VPST ONLY
AFC H
WP3
WP1
A.GND
P601
RF 5V
RESET
VPS.RDY
VPS.SO
VPS.SI
VPS.CLK
VPST OUT
VPST IN
WP2A
VPS ONLY
WP2
VPS IN
WP201
WF201
EO, EOH EOG, EOG-V ONLY
PRE AMP PCB V1130B5100
VIDEO HEAD
NC
CH1 PB
CH1 REC
CH2 REC
CH2 PB
REC.C
PB.C
NTSC
REC.Y
V.SWP
REC.S.5
TUNE
ENV.DET
PB.Y
SEC.MES
P250
P40
P301
PG
FG
DM POW
M.GND
CONT
DRUM MOTOR BLK
P302
F/R
LIMIT
CM.POW
P.GND
CAPSTAN MOTOR
(RF-370C15370)
AUDIO HEAD
S.ERASE HEAD
CTL HEAD
A/C PB
A/C REC
S.E
CTL-
CTL+
A/C HEAD PCB V1102B5120
WP801-2
MAIN (A) PCB
V1130A501A
P303
S.SEN
RSW.1
RSW.2
RSW.3
RSW.4
T.REEL.P
END.SEN
S.REEL.P
LM+
LM-
REC.SAF
P304
PWM
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP 5V
T.MUTE
BAND.C
SW1
MODE SELECT SW
REC SAFETY SW
LOADING MOTOR RF-370C15370
JW1
JW2
TR4 PT493F
TR2 PT4800
D2 GL4800
D1 GL451
R1 62
TR1 FN268
SENSOR PCB V1102A507A
SENSOR (S) PCB V1102A507B
OPERATION (A)
V1146B5100
IND
(CO


F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
G-V ONLY)
160
VPST ONLY
GND
VPST OUT
GND
VPST IN
WP2A
VPS ONLY
N.C
N.C
GND
VPS IN
WP2
P1
RESET
VPS.RDY
VPS.SO
VPS.SI
VPS.CLK
VIF UNIT
EO, EOG, EOG-V
:6C02413A1
EA, EK, EM, ES, EOH
:6C02415A1
EDG:6B00870A1
AFT
RF.AGC
V.OUT
GND
IF
VCC
A.OUT
U.AGC
V.AGC
EO, EOG, EOG-V ONLY
TV TUNER
EA:VTSS6AZEA
EDG:TERR1-001A
EK:TERB1-008A
EM:VTSB6CZ
EOH:ENV-57883F1
ES:TERE1-007B
EO, EOG, EOG-V
:TUMUF3S-292
RF IN
U
TU
VH
AGC
VL
AFT
B
IF
RF CONVERTER
EA:YAA21-0453
EDG:MDLK6E753A
EK:ENCR7976
EM:YAA21-0454
EO, EOH, EOG, EOG-V
:ENC-87975
ES:MDLK6B734A
VTR TV OUT
ANT IN
RF OUT
VIDEO IN
AUDIO IN
MOD +B
N.C.
A.C. +B
GND
GND
GND
I.V OUT
EXT
TO SD.V
V.GND
V.IN
IDL 9
A.IN
NT
A.OUT
A.MUTE
SP
A.REC
A.EE
ANC
TUNE
YNR
IDL 5
MESECAM
V.J.
I.V.OUT
GND
1/2 FH
PB C.OUT
PB H.C
AFC-H
SD.P
V.SYNC
GND
SD.C
BGP1
S.DATA
STB
CLK
EOG-V ONLY
P803A
GND
FROM VPST
GND
TO VPST
P803
VPS OUT
GND
N.C
N.C
EOG ONLY
WP801
A/C PB
GND
A/C REC
SE.H
P802
GND
FEH
FULL TRACK ERASE HEAD
P601
GND
AFC-H
EOG-V ONLY
P401
REC.C
PB.C
GND
NTSC
REC.Y
IDL 5V
V.SWP
REC.S.5
TUNE
ENV.DET
PB.Y
SEC.MES
MAIN (A) PCB
V1130A501A
CTL-
CTL+
WP801-2
MAIN (B) PCB
V1130A501B
EM ONLY
WP301
AC4V IN
AC4V IN
AC4V OUT
P400
IDL 5V
SYS.SO
RESET
S.RADY
H.SYNC
SYS.SI
SYS.CLK
GND
IMS.SO
IMS.CLK
IMS.STB
RESET
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP 5V
T.MUTE
AC4V
BAND.C
WP1
WP2
VPS.CLK
VPS.SI
VPS.SO
VPS.RDY
RESET
WP3/P3
WP3:EOG, EOG-V
P3:EO, EOH
OPERATION (A) PCB
V1146B5100
C1
3300/10
D2
MA719
6.6V
3.5V
TR1
2SB1185
5.9V
R2
3.3K
D3
MTZJ3.3B
P1
AC4V OUT
AC4V IN
AC4V IN
R1
3.3K
TR2
2SC3330
0.6V
C2
3300/10
D1
MA719
0.3V
R5
10K
2.0V
TR3
2SC3330
0.6V
C3
330/6.3
R7
2.7K
R3
330
R4
10K
0V
R6
10K
R8
3.3K
SUB PCB V1130D5210
EM ONLY

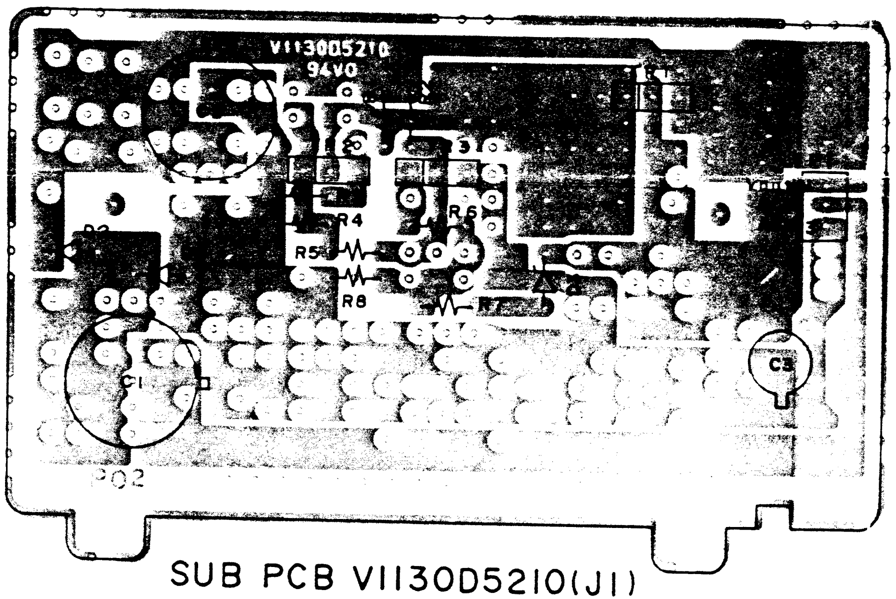
INDICATED VOLTAGES IN THE SUB PCB WERE MEASURED IN PB MODE.
(CONNECTED DC VOLTMETER'S GROUND TO THE P1 ③ PIN WHEN MEASURED)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF (M)

JBX
CONNECTION DIAGRAM
No.18-1 V114601M
A1

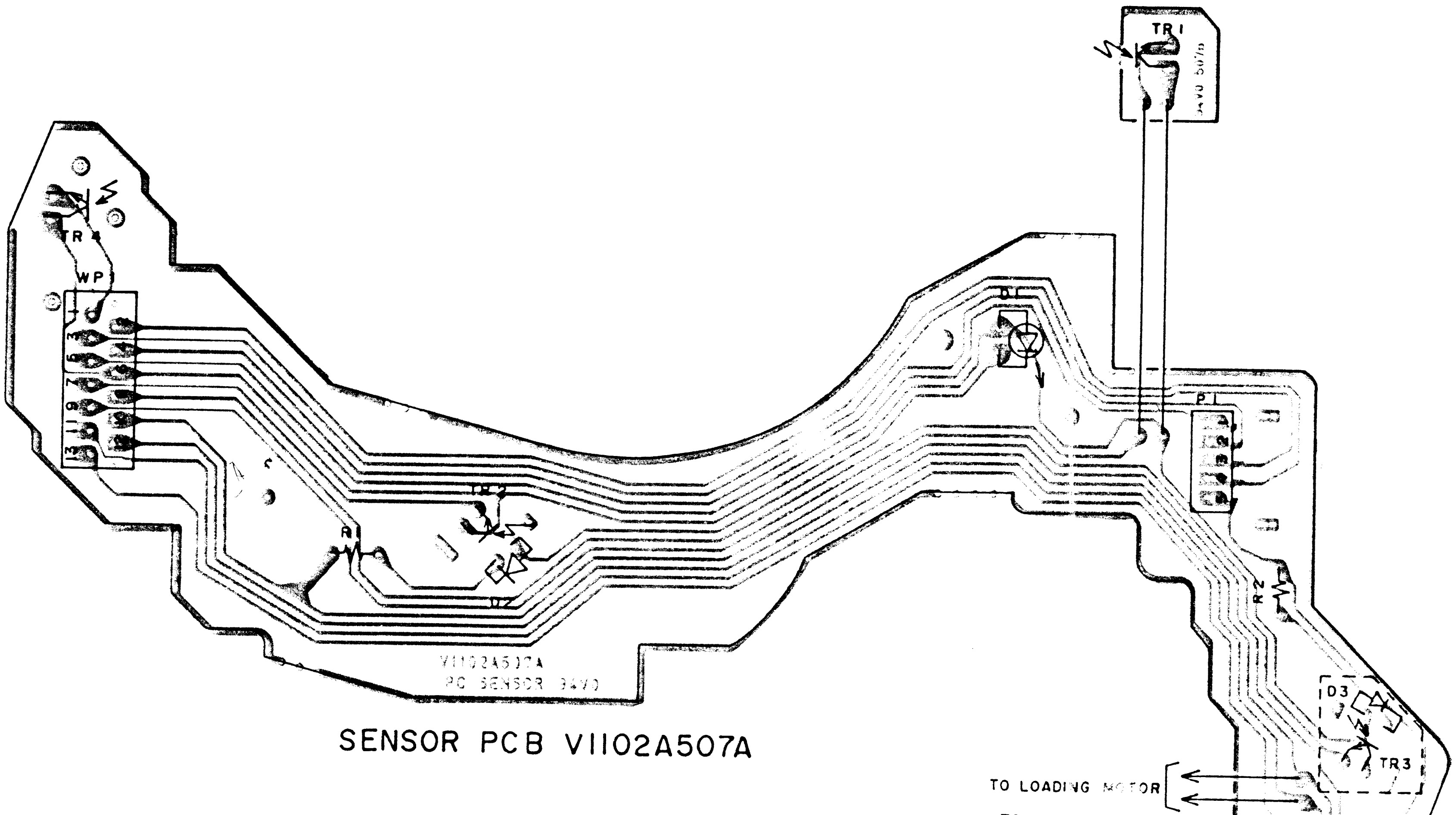

P1
AUDIO HEAD
S.ERASE HEAD
CTL HEAD

A/C HEAD PCB
V1102B5120(J1)

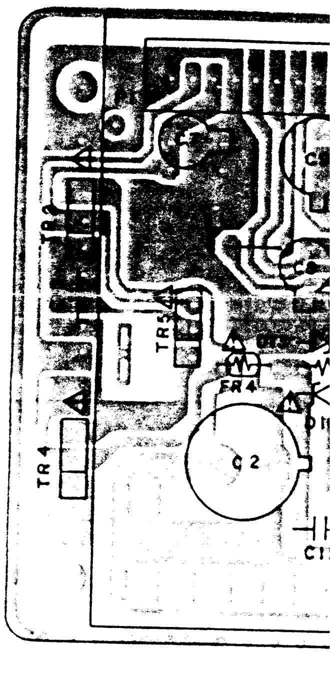

V1130D5210
94V0
R4
R5
R6
R8
C1
C5
PO2

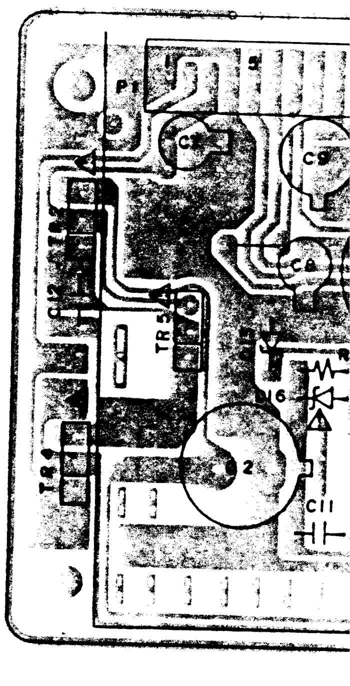
SUB PCB V1130D5210(J1)
(EM ONLY)

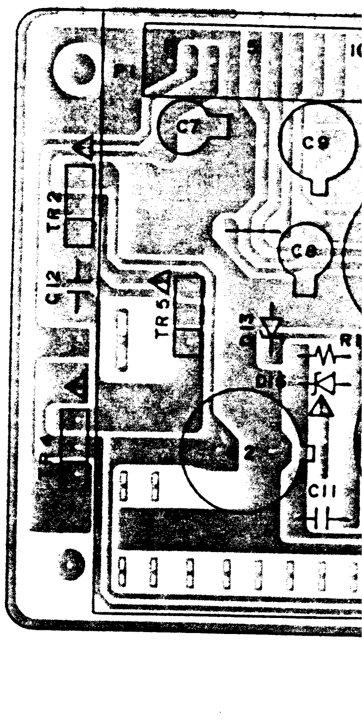
SENSOR(S) PCB
V1102A507B


TR1
TR4
WP1
D1
P1
TR2
R1
D2
R2
D3
TR3
V1102A507A
PC SENSOR 94V0
TO LOADING MOTOR
TO REC SAFETY SW

SENSOR PCB V1102A507A




P1
TR5
TR4
C11

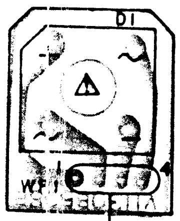

TR2
C12
TR5
C9
C11

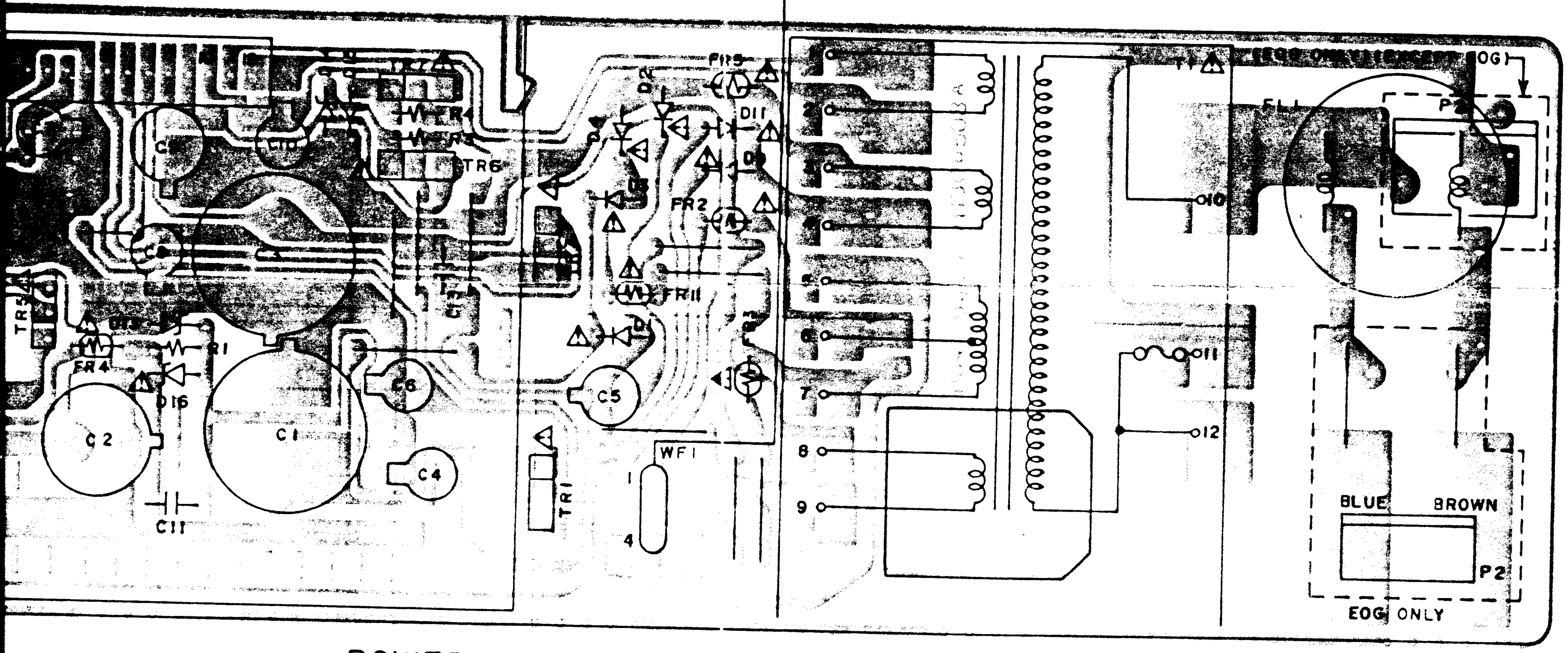
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

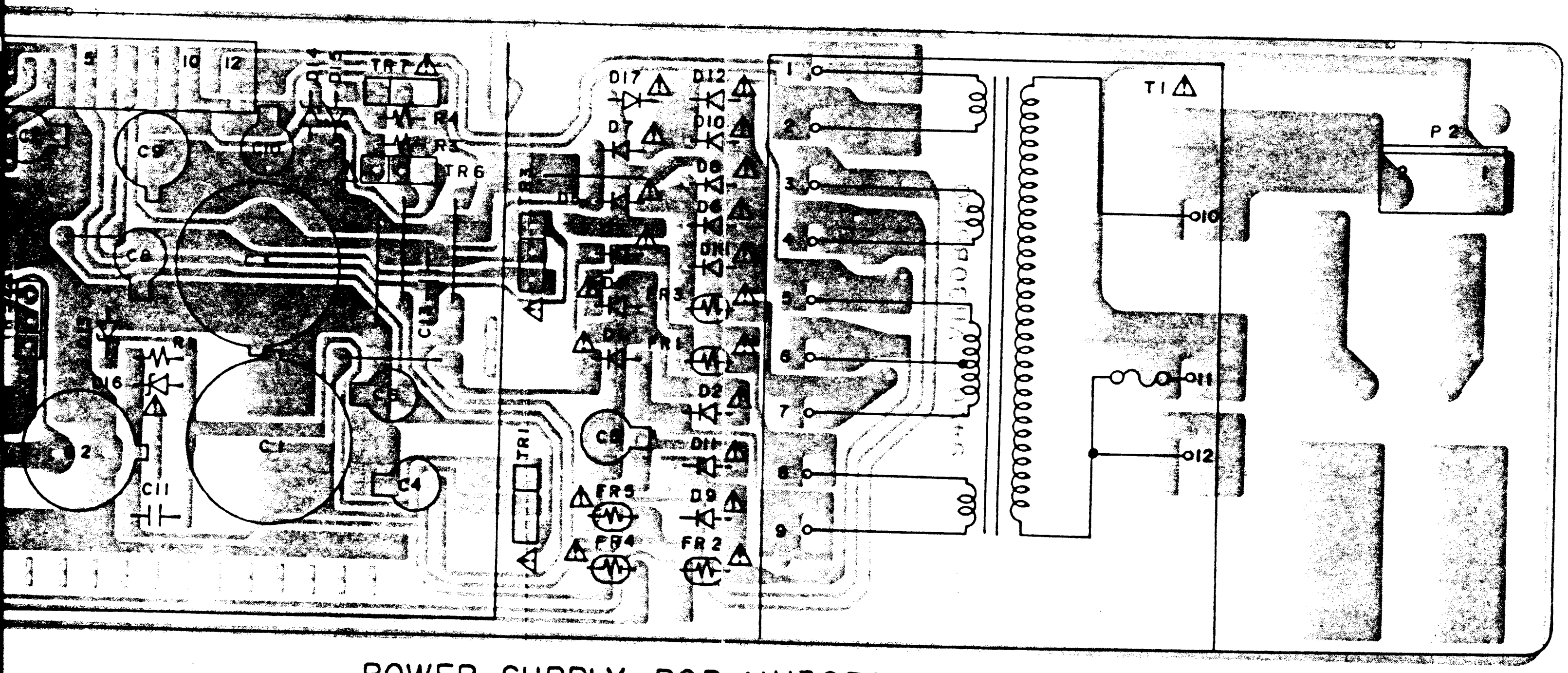
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

DIODE PCB
V1130B508B

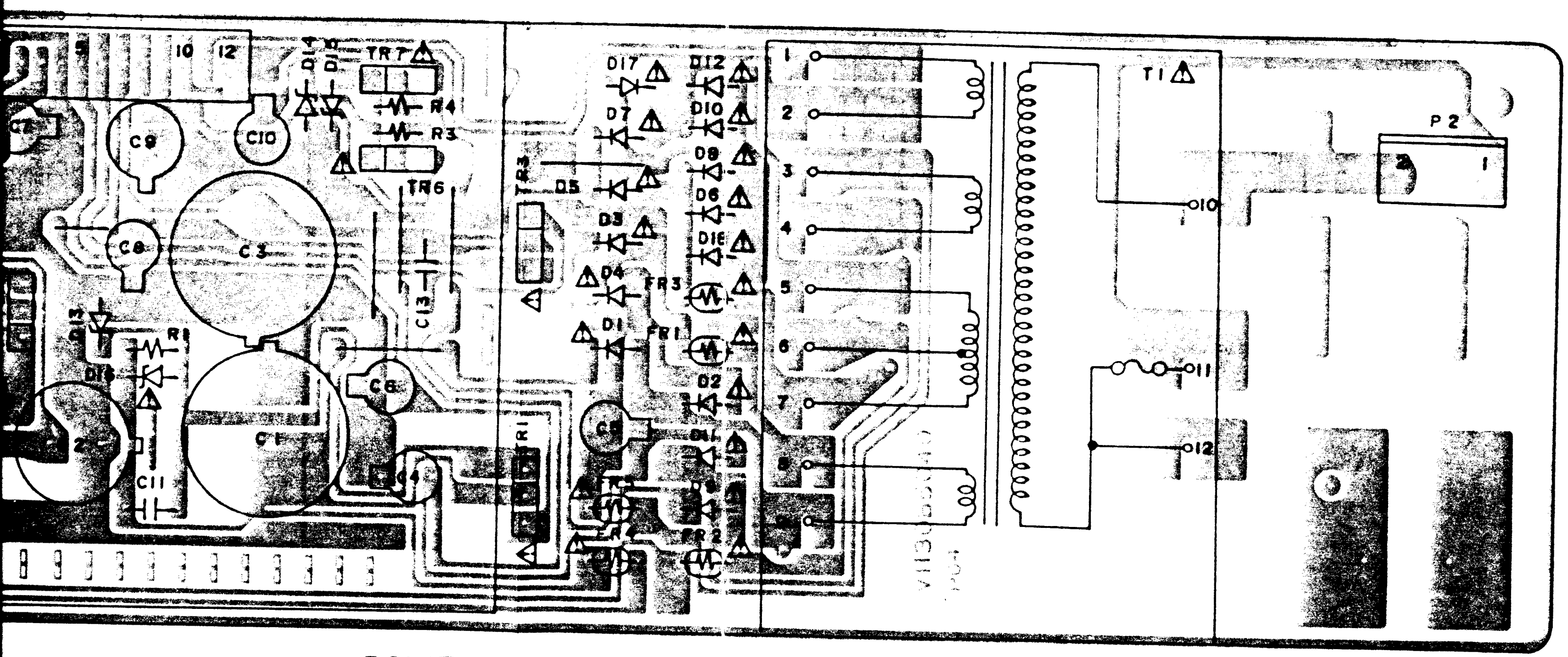



T1
EOG ONLY (EXCEPT EOG)
P2
C9
C10
TR7
R4
R3
TR6
D2
D11
D1
FR2
FR11
C6
C5
C1
C2
C4
C11
R1
D16
FR4
TR1
WF1
1
4
1
2
3
4
5
6
7
8
9
10
11
12
BLUE
BROWN
P2
EOG ONLY

POWER SUPPLY PCB V1130B508A(J3)(EO.EOH.EOG ONLY)


T1
P2
10
12
TR7
R4
R3
TR6
C9
C8
D17
D12
D7
D10
D8
D6
D3
D2
D9
FR5
FR4
FR2
FR3
FR1
C1
C4
C11
D16
TR1
1
2
3
4
5
6
7
8
9
10
11
12

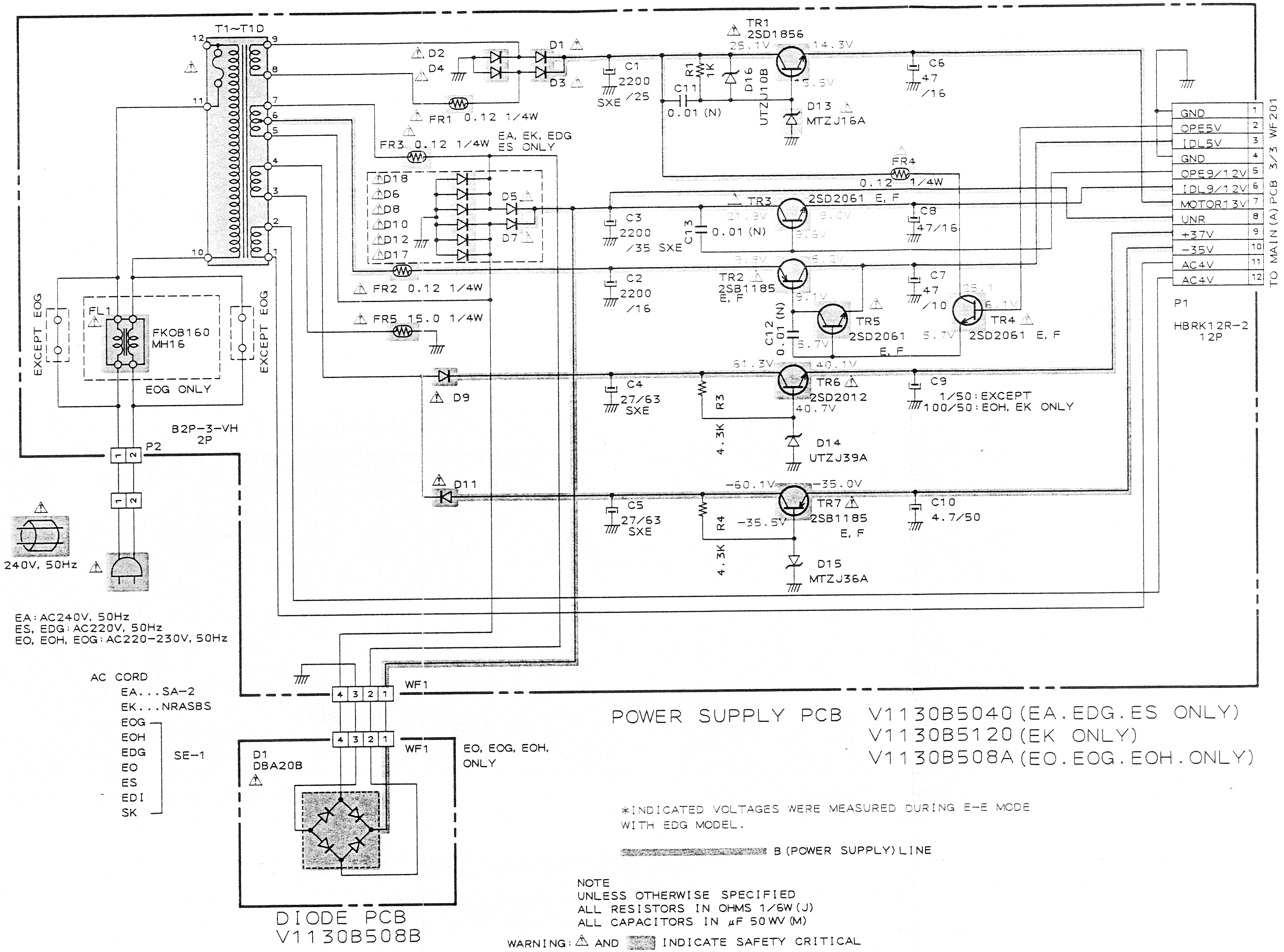
POWER SUPPLY PCB V1130B5120(J1) (EK ONLY)


T1
P2
2
1
10
12
TR7
R4
R3
TR6
C9
C10
C8
C3
C13
D17
D12
D7
D10
D9
D5
D8
D6
D3
D16
D4
FR3
D1
FR1
D2
FR2
C6
C1
C11
R1
TR1
1
2
3
4
5
6
7
8
9
10
11
12

POWER SUPPLY PCB V1130B5040(J3)(EA.ES.EDG ONLY)

T1~T1C
T1...V1130EA
T1A..V1130EK
T1B..V1130EO
T1C..V1130EDG
T1D..V1130ES
D1~D12, 17, 18
1N4002

FR2, 4
RF25SC SERIES
FR1, 3
RF25SCP SERIES
FR5
ERD2FC SERIES


T1~T1D
12
9
8
11
7
6
5
4
3
2
10
1
⚠ D2
D4
D1 ⚠
D3 ⚠
⚠ FR1 0.12 1/4W
FR3 0.12 1/4W
EA, EK, EDG
ES ONLY
⚠D18
⚠D6
⚠D8
⚠D10
⚠D12
⚠D17
D5 ⚠
D7 ⚠
⚠ FR2 0.12 1/4W
⚠ FR5 15.0 1/4W
⚠ D9
⚠ D11
EXCEPT EOG
FL1
FKOB160
MH16
EOG ONLY
EXCEPT EOG
B2P-3-VH
2P
P2
1 2
1 2
EK: AC 240V, 50Hz
EA: AC240V, 50Hz
ES, EDG: AC220V, 50Hz
EO, EOH, EOG: AC220-230V, 50Hz
AC CORD
EA...SA-2
EK...NRASBS
EOG
EOH
EDG
EO
ES
EDI
SK
SE-1
4 3 2 1
WF1
4 3 2 1
WF1
EO, EOG, EOH,
ONLY
D1
DBA20B
⚠
DIODE PCB
V1130B508B
⚠ TR1
2SD1856
25.1V
14.3V
15.5V
C1
2200
/25
SXE
R1 1K
C11
0.01 (N)
D16
UTZJ10B
D13 ⚠
MTZJ16A
C6
47
/16
⚠
FR4
0.12 1/4W
⚠ TR3
2SD2061 E, F
21.9V
9.0V
9.6V
C3
2200
/35 SXE
C13
0.01 (N)
C8
47/16
C2
2200
/16
TR2 ⚠
2SB1185
E, F
9.8V
5.2V
9.1V
C12
0.01 (N)
5.7V
⚠
TR5
2SD2061
E, F
C7
47
/10
25.1
6.1V
5.7V
TR4 ⚠
2SD2061 E, F
C4
27/63
SXE
R3
4.3K
61.3V
40.1V
TR6 ⚠
2SD2012
40.7V
C9
1/50: EXCEPT
100/50: EOH, EK ONLY
D14
UTZJ39A
C5
27/63
SXE
R4
4.3K
-60.1V
-35.0V
-35.5V
TR7 ⚠
2SB1185
E, F
C10
4.7/50
D15
MTZJ36A
GND 1
OPE5V 2
IDL5V 3
GND 4
OPE9/12V 5
IDL9/12V 6
MOTOR13V 7
UNR 8
+37V 9
-35V 10
AC4V 11
AC4V 12
TO MAIN (A) PCB 3/3 WF201
P1
HBRK12R-2
12P

POWER SUPPLY PCB V1130B5040 (EA.EDG.ES ONLY)
V1130B5120 (EK ONLY)
V1130B508A (EO.EOG.EOH.ONLY)

*INDICATED VOLTAGES WERE MEASURED DURING E-E MODE WITH EDG MODEL.

▨ B (POWER SUPPLY) LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50WV (M)

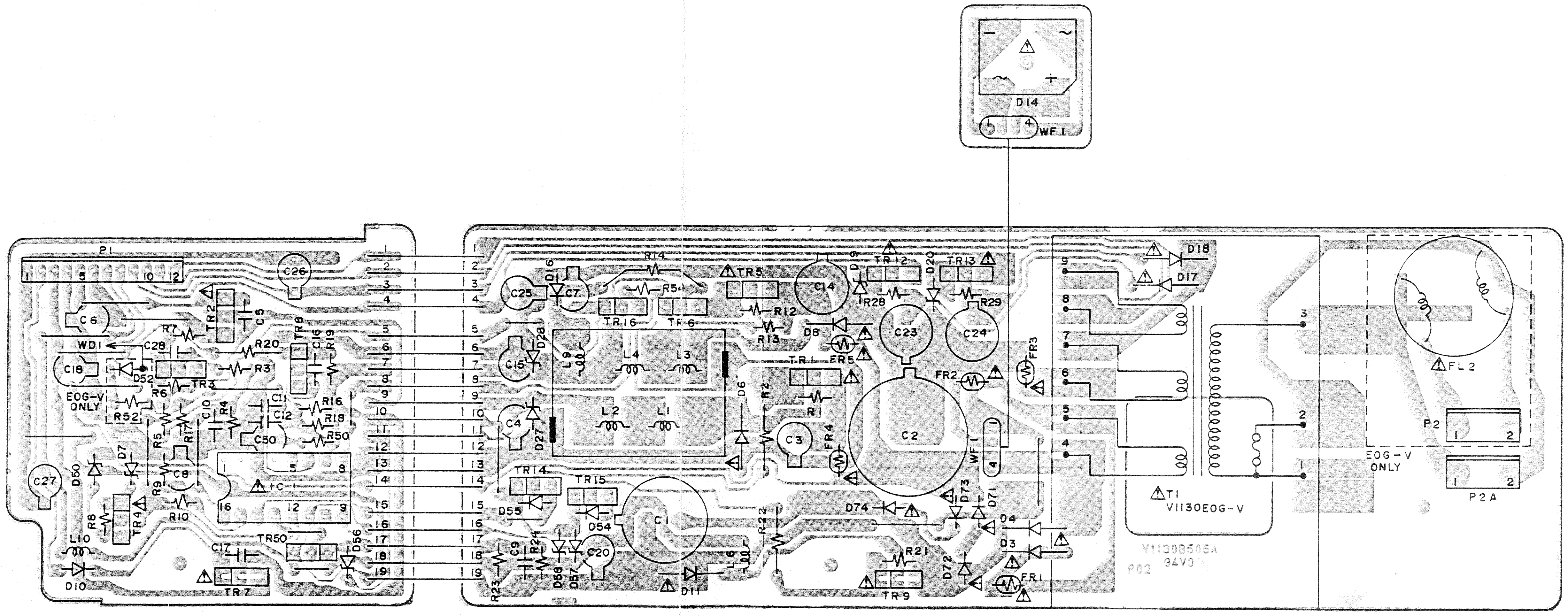
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

EA/EK/EO/ES/EDG/EOG/EOH MODELS POWER SUPPLY & DIODE SCHEMATIC DIAGRAM

No.18-2 V114602M
A2

DIODE PCB
V1130B505C(J1)

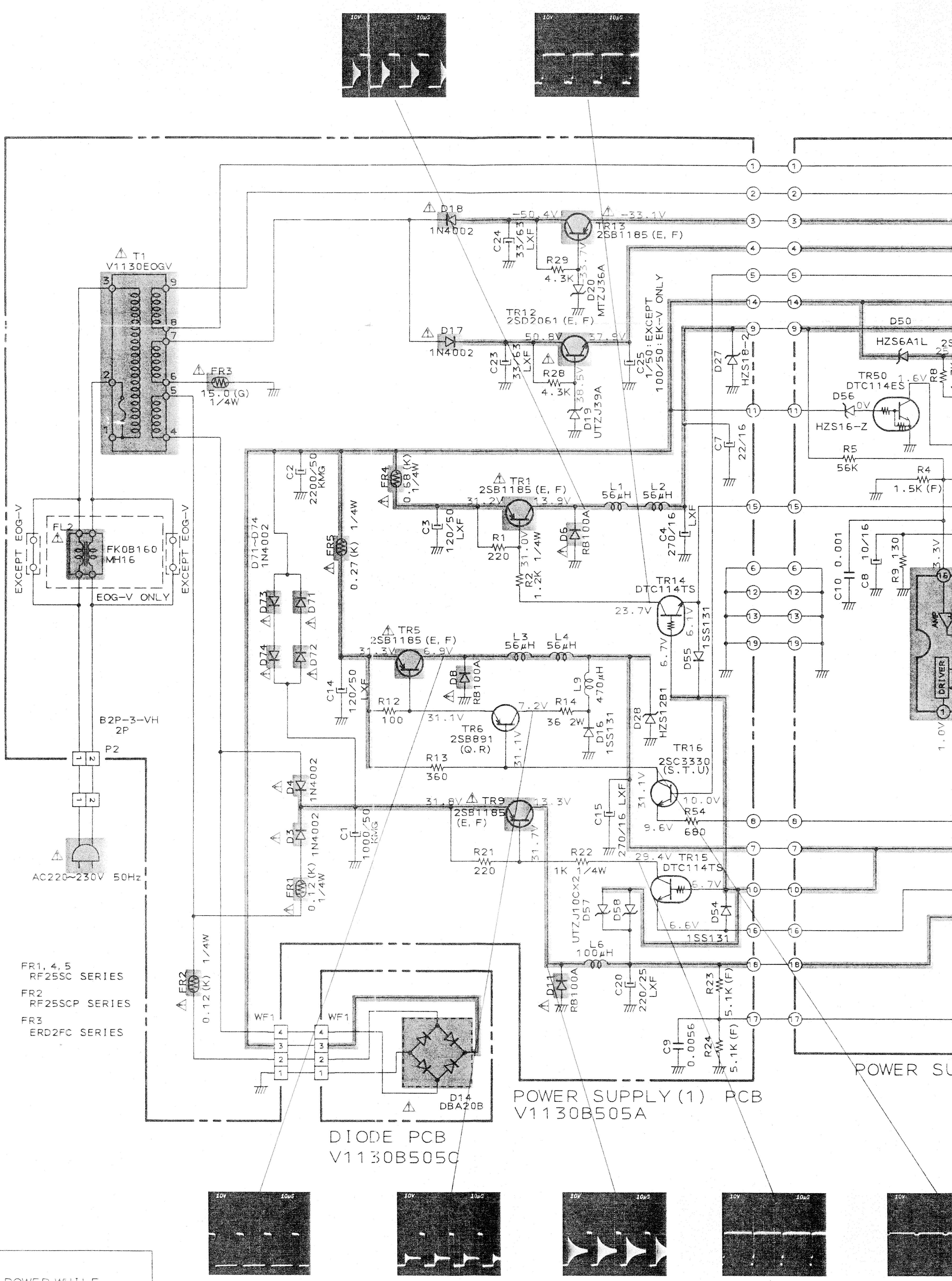

D14
WF1
P1
C26
C6
WD1
C28
C18
D52
EOG-V ONLY
R52
TR2
C5
R7
R20
R3
TR3
TR8
C16
R19
R6
R5
R17
C10
R4
C11
C12
C50
R16
R18
R50
C27
D50
D7
C8
R9
IC1
R8
TR4
R10
L10
D10
TR50
C17
TR7
D56
R14
R5
C25
C7
D16
TR16
TR6
TR5
R12
R13
C14
D19
TR12
R28
D20
TR13
C23
R29
C24
D8
FR5
FR3
C15
D28
L9
L4
L3
L2
L1
D6
R2
TR1
R1
FR2
C4
D27
C3
FR4
C2
WF1
D73
D71
TR14
TR15
D55
C1
D74
D4
D3
R24
C9
D54
C20
R22
L6
R21
D72
FR1
R23
D58
D57
D11
TR9
D18
D17
T1
V1130EOG-V
FL2
P2
P2A
EOG-V ONLY
V1130B505A
94V0
P02

POWER SUPPLY(2) PCB
V1130B505B(J1)

POWER SUPPLY(1) PCB V1130B505A(J1)

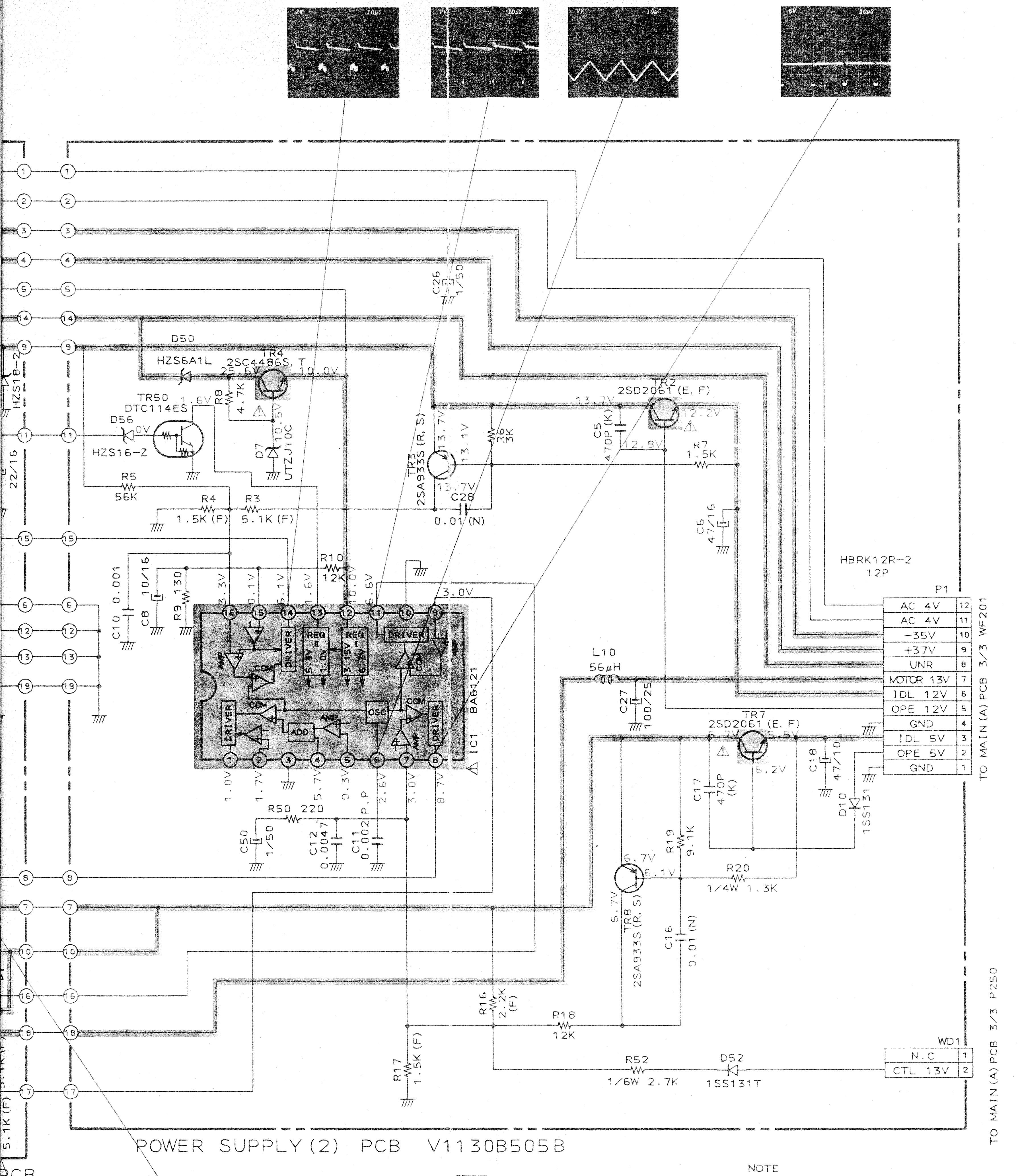
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

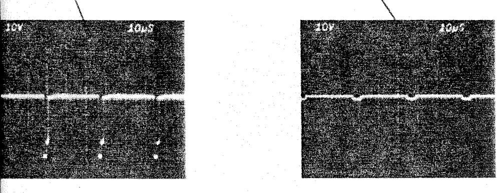


⚠ T1 V1130EOGV
⚠ D18 1N4002
C24 33/63 LXF
-50.4V
⚠ -33.1V
TR13 2SB1185 (E, F)
R29 4.3K
D20 MTZJ36A
35.7V
TR12 2SD2061 (E, F)
⚠ D17 1N4002
C23 33/63 LXF
50.8V
37.9V
⚠ R28 4.3K
38.5V
D19 UTZJ39A
C25 1/50:EXCEPT 100/50:EK-V ONLY
D27 HZS18-2
⚠ FR3 15.0 (G) 1/4W
C7 22/16
C2 2200/50 KMG
⚠ FR4 0.68 (K) 1/4W
⚠ TR1 2SB1185 (E, F)
31.2V
13.9V
L1 56μH
L2 56μH
C3 120/50 LXF
R1 220
31.0V
R2 1.2K 1/4W
⚠ D6 RB100A
C4 270/16 LXF
⚠ FR5 0.27 (K) 1/4W
D71~D74 1N4002
⚠ D73 ⚠ D71 ⚠ D74 ⚠ D72
TR14 DTC114TS
23.7V
6.7V
6.1V
D55 1SS131
⚠ TR5 2SB1185 (E, F)
31.3V
6.9V
L3 56μH
L4 56μH
⚠ D8 RB100A
L9 470μH
C14 120/50 LXF
R12 100
31.1V
TR6 2SB891 (Q, R)
7.2V
R14 36 2W
D16 1SS131
D28 HZS12B1
R13 360
31.1V
TR16 2SC3330 (S, T, U)
⚠ D4 1N4002
⚠ D3 1N4002
31.8V ⚠ TR9 2SB1185 (E, F)
13.3V
C1 1000/50 KMG
31.7V
C15 270/16 LXF
31.1V
10.0V
R54 680
9.6V
⚠ FR1 0.12 (K) 1/4W
R21 220
R22 1K 1/4W
29.4V TR15 DTC114TS
6.7V
6.6V
D57 D58 UTZJ10CX2
D54 1SS131
L6 100μH
⚠ D11 RB100A
C20 220/25 LXF
R23 5.1K (F)
C9 0.0056
R24 5.1K (F)
⚠ FR2 0.12 (K) 1/4W
WF1 WF1
4 3 2 1
⚠ D14 DBA20B
⚠ FL2 FK0B160 MH16
EXCEPT EOG-V
EXCEPT EOG-V
EOG-V ONLY
B2P-3-VH 2P
P2
⚠ AC220~230V 50Hz
FR1, 4, 5 RF25SC SERIES
FR2 RF25SCP SERIES
FR3 ERD2FC SERIES
POWER SUPPLY (1) PCB V1130B505A
DIODE PCB V1130B505C
D50 HZS6A1L
TR50 DTC114ES
1.6V
D56 0V HZS16-Z
R5 56K
R4 1.5K (F)
C10 0.001
C8 10/16
R9 130
3.3V
AMP
DRIVER
1.0V
POWER SU
10V 10μS

CAUTION
DO NOT TURN ON THE POWER WHILE THE FLAT CABLE IN THE POWER BLK IS DISCONNECTED AS THIS WILL DAMAGE THE POWER CIRCUIT. MAKE SURE THAT THE FLAT CABLE IS CONNECTED BEFORE TURNING ON THE POWER.



D50
HZS6A1L
TR4
2SC4486S, T
25.6V
10.0V
R8 4.7K
TR50 DTC114ES
1.6V
D56 0V
HZS16-Z
D7 UTZJ10C
10.5V
R5 56K
R4 1.5K (F)
R3 5.1K (F)
C26 1/50
TR3 2SA933S (R, S)
13.7V
13.1V
R6 3K
C28 0.01 (N)
TR2 2SD2061 (E, F)
13.7V
12.2V
12.9V
C5 470P (K)
R7 1.5K
C6 47/16
R10 12K
C10 0.001
C8 10/16
R9 130
3.3V
0.1V
6.1V
1.6V
10.0V
6.6V
3.0V
DRIVER
REG II
REG
5.3V
1.0V
3.15V
6.3V
AMP
COM
ADD
OSC
IC1 BA6121
1.0V
1.7V
5.7V
0.3V
P.P
2.6V
3.0V
8.7V
R50 220
C50 1/50
C12 0.0047
C11 0.002
L10 56μH
C27 100/25
TR7 2SD2061 (E, F)
6.2V
C17 470P (K)
C18 47/10
D10 1SS131
R19 9.1K
R20 1/4W 1.3K
6.7V
6.1V
TR8 2SA933S (R, S)
C16 0.01 (N)
R16 2.2K (F)
R18 12K
R17 1.5K (F)
R52 1/6W 2.7K
D52 1SS131T
HBRK12R-2 12P
P1
AC 4V 12
AC 4V 11
-35V 10
+37V 9
UNR 8
MOTOR 13V 7
IDL 12V 6
OPE 12V 5
GND 4
IDL 5V 3
OPE 5V 2
GND 1
TO MAIN (A) PCB 3/3 WF201
WD1
N.C 1
CTL 13V 2
TO MAIN (A) PCB 3/3 P250
HZS18-2
22/16
5.1K (F)
2V 10μS
5V 10μS
POWER SUPPLY (2) PCB V1130B505B



WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

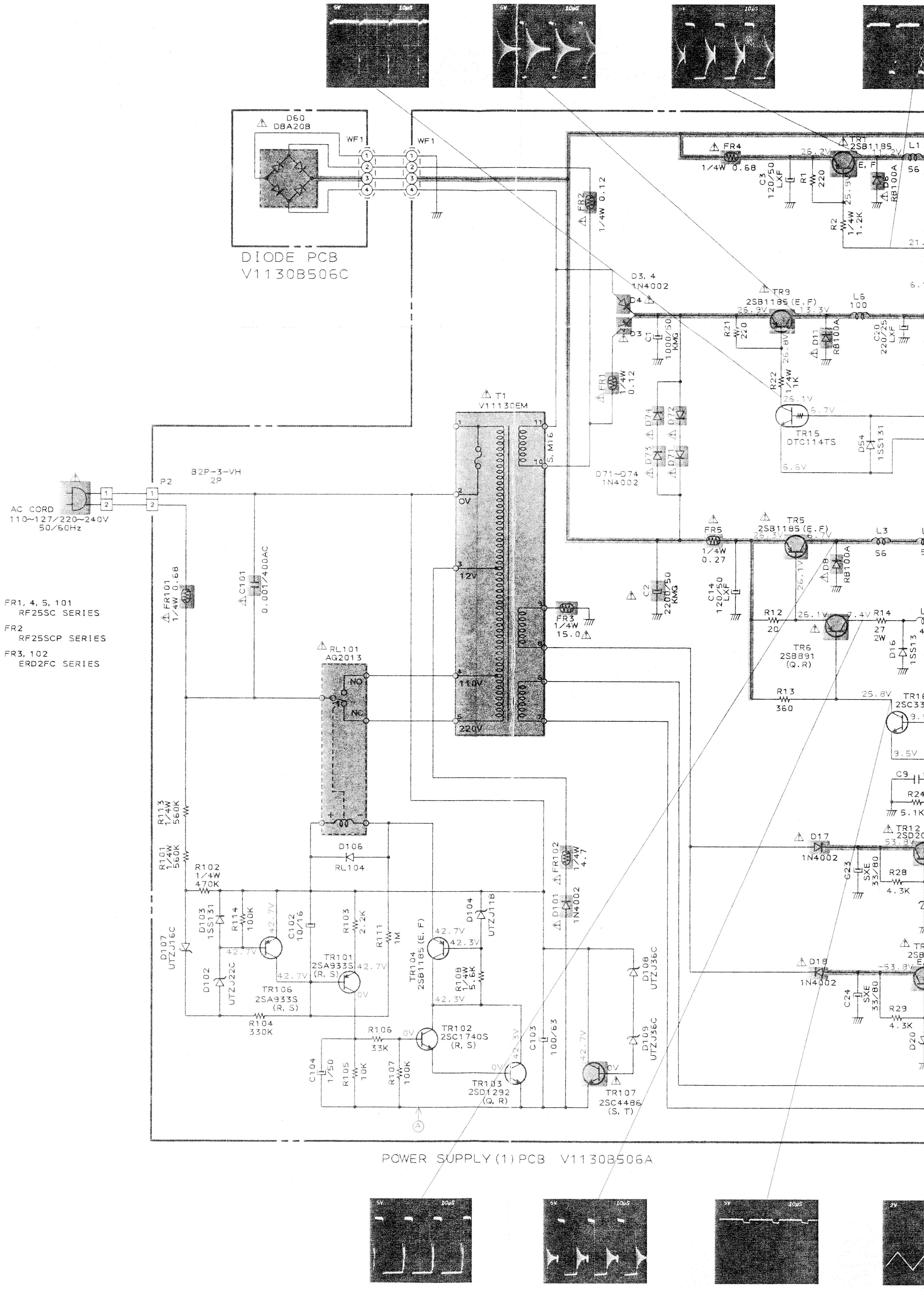
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50 WV (M)

* INDICATED VOLTAGE WERE MEASURED DURING E-E MODE.
* PHOTOGRAPHS WERE TAKEN DURING E-E MODE. THE SCREEN'S FIRST LINE FROM THE BOTTOM IS DC 0V.

▬ : B (POWER SUPPLY) LINE

POWER SUPPLY (1), (2) & DIODE SCHEMATIC DIAGRAM

No.18-3 V114603M A1

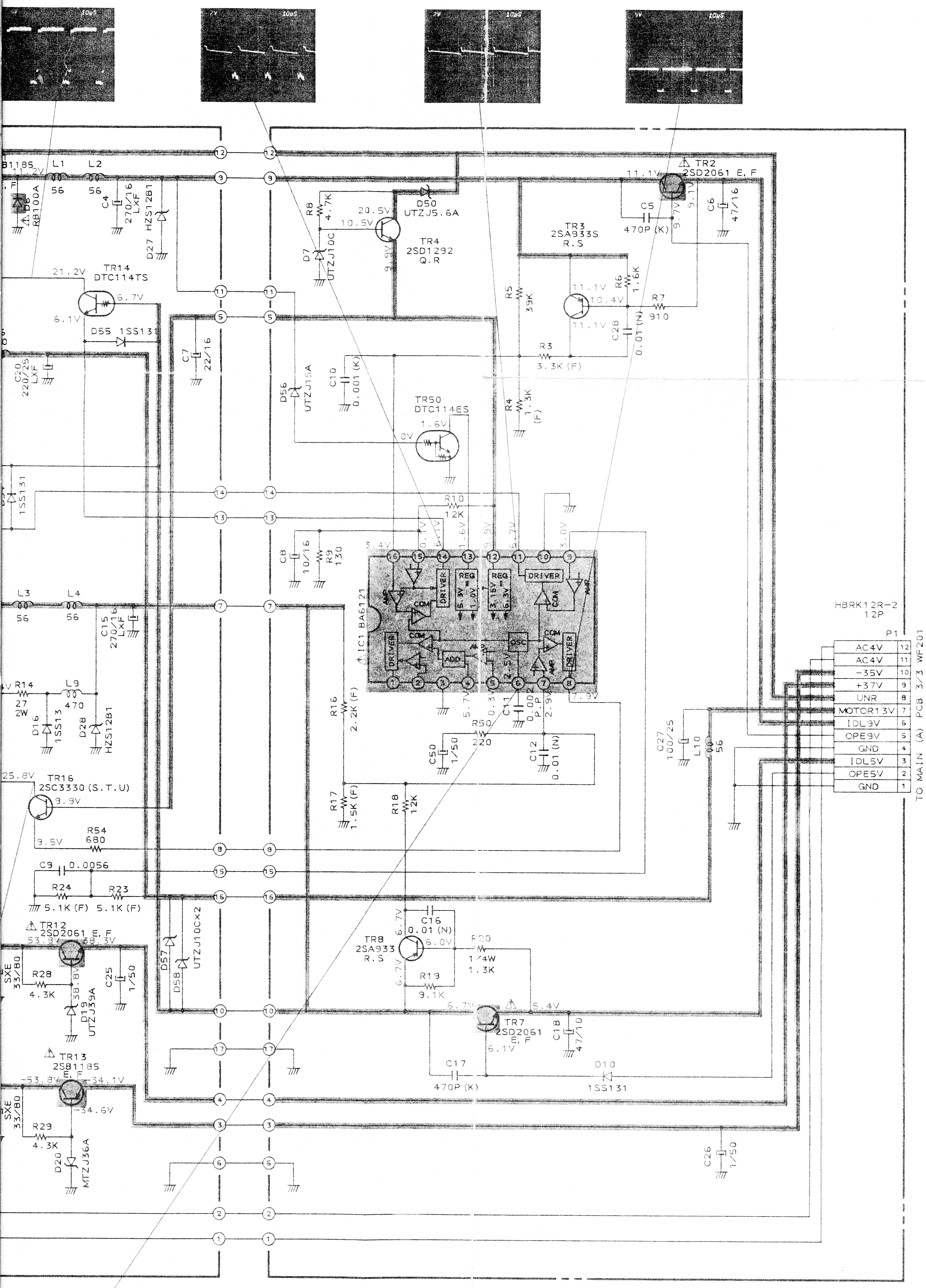

DIODE PCB
V1130B506C
D60
DBA20B
WF1
AC CORD
110~127/220~240V
50/60Hz
P2
B2P-3-VH
2P
FR1, 4, 5, 101
RF25SC SERIES
FR2
RF25SCP SERIES
FR3, 102
ERD2FC SERIES
C101
0.001/400AC
FR101
1/4W 0.68
T1
V1113OEM
0V
12V
110V
220V
RL101
AG2013
NO
NC
D106
RL104
R113
1/4W
560K
R101
1/4W
560K
R102
1/4W
470K
D103
1SS131
R114
100K
C102
10/16
R103
2.2K
R111
1M
D107
UTZJ16C
D102
UTZJ22C
TR106
2SA933S
(R, S)
TR101
2SA933S
(R, S)
R104
330K
TR104
2SB1185 (E, F)
D104
UTZJ18
R108
1/4W
5.6K
R106
33K
TR102
2SC1740S
(R, S)
C104
1/50
R105
10K
R107
100K
C103
100/63
TR103
2SD1292
(Q, R)
D101
1N4002
FR102
1/4W
4.7
D108
UTZJ36C
D109
UTZJ36C
TR107
2SC4486
(S, T)
FR4
1/4W 0.68
TR4
2SB1185
C3
120/50
LXF
R1
220
D6
RB100A
R2
1/4W
1.2K
L1
56
FR2
1/4W 0.12
D3, 4
1N4002
TR9
2SB1185 (E, F)
L6
100
C1
1000/50
KMG
R21
220
D11
RB100A
C20
220/25
LXF
R22
1/4W
1K
FR1
1/4W
0.12
TR15
DTC114TS
D54
1SS131
D71~D74
1N4002
FR5
1/4W
0.27
TR5
2SB1185 (E, F)
L3
56
C2
2200/50
KMG
C14
120/50
LXF
D8
RB100A
FR3
1/4W
15.0
R12
20
R14
27
2W
TR6
2SB891
(Q, R)
D16
1SS13
R13
360
C9
R24
5.1K
D17
1N4002
C23
SXE
33/80
R28
4.3K
TR12
D18
1N4002
C24
SXE
33/80
R29
4.3K
POWER SUPPLY (1) PCB V1130B506A

CAUTION
DO NOT TURN ON THE POWER WHILE THE FLAT CABLE IN THE POWER BLK IS DISCONNECTED AS THIS WILL DAMAGE THE POWER CIRCUIT. MAKE SURE THAT THE FLAT CABLE IS CONNECTED BEFORE TURNING ON THE POWER.

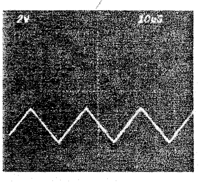
* INDICATED VOLTAGES WERE MEASURED DURING E-
CONNECTED DC VOLTMETER'S NEGATIVE INPUT TO
Ⓐ POINT WHEN MEASURED THE PRIMARY SECTION
PRIMARY INPUT WAS AC 220V.

* PHOTOGRAPHS WERE TAKEN DURING E-E MODE.
THE SCREEN'S FIRST LINE FROM THE BOTTOM I

14


2V 10μS
TR2 2SD2061 E. F
TR3 2SA933S R. S
TR4 2SD1292 Q. R
TR14 DTC114TS
TR50 DTC114ES
TR16 2SC3330 (S. T. U)
TR12 2SD2061 E. F
TR13 2SB1185 E. F
TR8 2SA933 R. S
TR7 2SD2061 E. F
IC1 BA6121
REG 5.3V
REG 3.15V 5.3V
DRIVER
OSC
ADD
COM
AMP
D50 UTZJ5.6A
D7 UTZJ10C
D56 UTZJ15A
D55 1SS131
D27 HZS12B1
D28 HZS12B1
D16 1SS131
D57 D58 UTZJ10CX2
D19 UTZJ39A
D20 MTZJ36A
D10 1SS131
RB100A
L1 56
L2 56
L3 56
L4 56
L9 470
L10 56
R3 3.3K (F)
R4 1.3K (F)
R5 39K
R6 1.6K
R7 910
R8 4.7K
R9 130
R10 12K
R14 27 2W
R16 2.2K (F)
R17 1.5K (F)
R18 12K
R19 9.1K
R20 1/4W 1.3K
R23 5.1K (F)
R24 5.1K (F)
R28 4.3K
R29 4.3K
R50 220
R54 680
C4 270/16 LXF
C5 470P (K)
C6 47/16
C7 22/16
C8 10/16
C9 0.0056
C10 0.001 (K)
C11 0.002 P.P
C12 0.01 (N)
C15 270/16 LXF
C16 0.01 (N)
C17 470P (K)
C18 47/10
C20 220/25 LXF
C25 1/50
C26 1/50
C27 100/25
C28 0.01 (N)
C50 1/50
SXE 33/80
HBRK12R-2 12P
P1
AC4V 12
AC4V 11
-35V 10
+37V 9
UNR 8
MOTOR13V 7
IDL9V 6
OPE9V 5
GND 4
IDL5V 3
OPE5V 2
GND 1
TO MAIN (A) PCB 3/3 WF201

POWER SUPPLY (2) PCB V1130B506B



WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIGUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L' APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50 WV (M)
ALL INDUCTORS IN μH (K)

▬ B (POWER SUPPLY LINE)

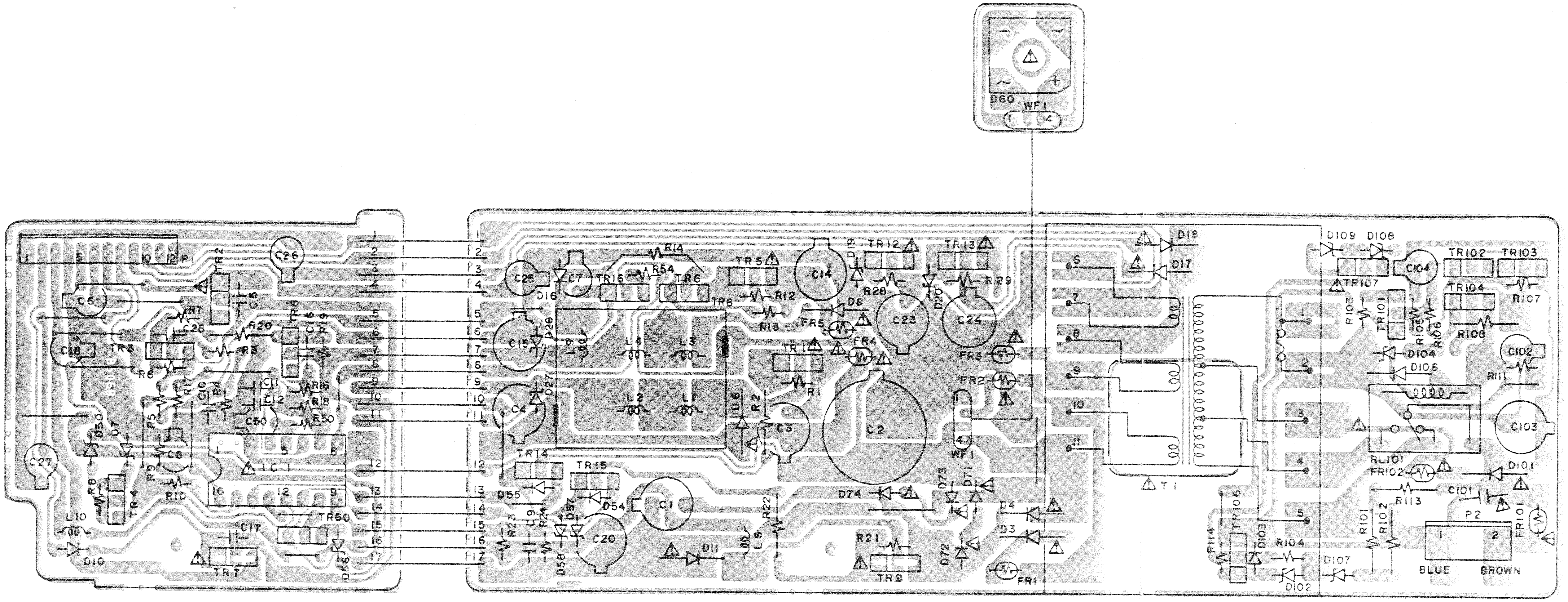
D DURING E-E MODE.
VE INPUT TO THE
ARY SECTION AND

E-E MODE.
HE BOTTOM IS DC 0V.

VS-F260EM
POWER SUPPLY (1), (2) & DIODE
SCHEMATIC DIAGRAM

No.18-4 V114604M
A1

DIODE PCB
V1130B506C(J1)

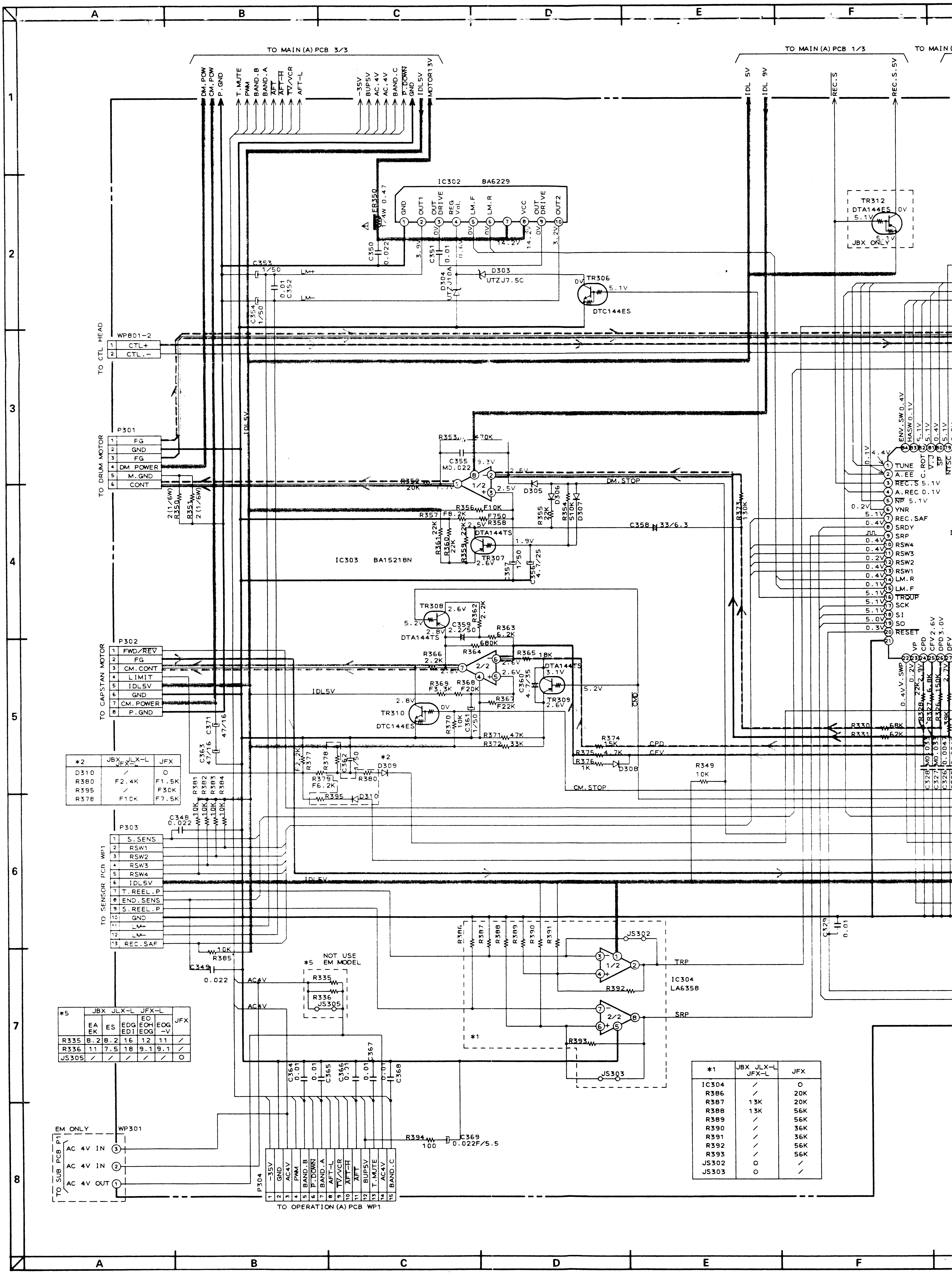

D60
WF1
P1
C26
C6
TR2
C5
R7
C28
TR8
C16
R19
R20
R3
C18
TR3
R6
R17
R4
C10
C11
C12
C50
R16
R18
R50
R5
D50
D7
C8
R9
IC1
C27
R8
TR4
R10
L10
D10
C17
TR50
TR7
D56
C25
C7
D16
TR16
R14
R54
TR6
TR5
R12
R13
FR5
FR4
TR1
R1
C14
D19
TR12
R28
D8
C23
D20
TR13
R29
C24
FR3
FR2
C15
D28
L9
L4
L3
L2
L1
C4
D27
D6
R2
C3
C2
TR14
TR15
D55
D54
C1
R23
C9
R24
D57
D58
C20
D11
L6
R22
R21
TR9
D74
D73
D71
D72
D4
D3
FR1
D18
D17
T1
TR106
R114
D103
R104
D102
D109
D108
TR107
C104
TR102
TR103
R107
TR104
R103
TR101
R105
R106
R108
D104
D106
C102
R111
RL101
C103
FR102
R113
C101
D101
D107
R101
R102
P2
FR101
BLUE
BROWN

POWER SUPPLY (2) PCB
V1130B506B(J1)

POWER SUPPLY(1) PCB V1130B506A(J1)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

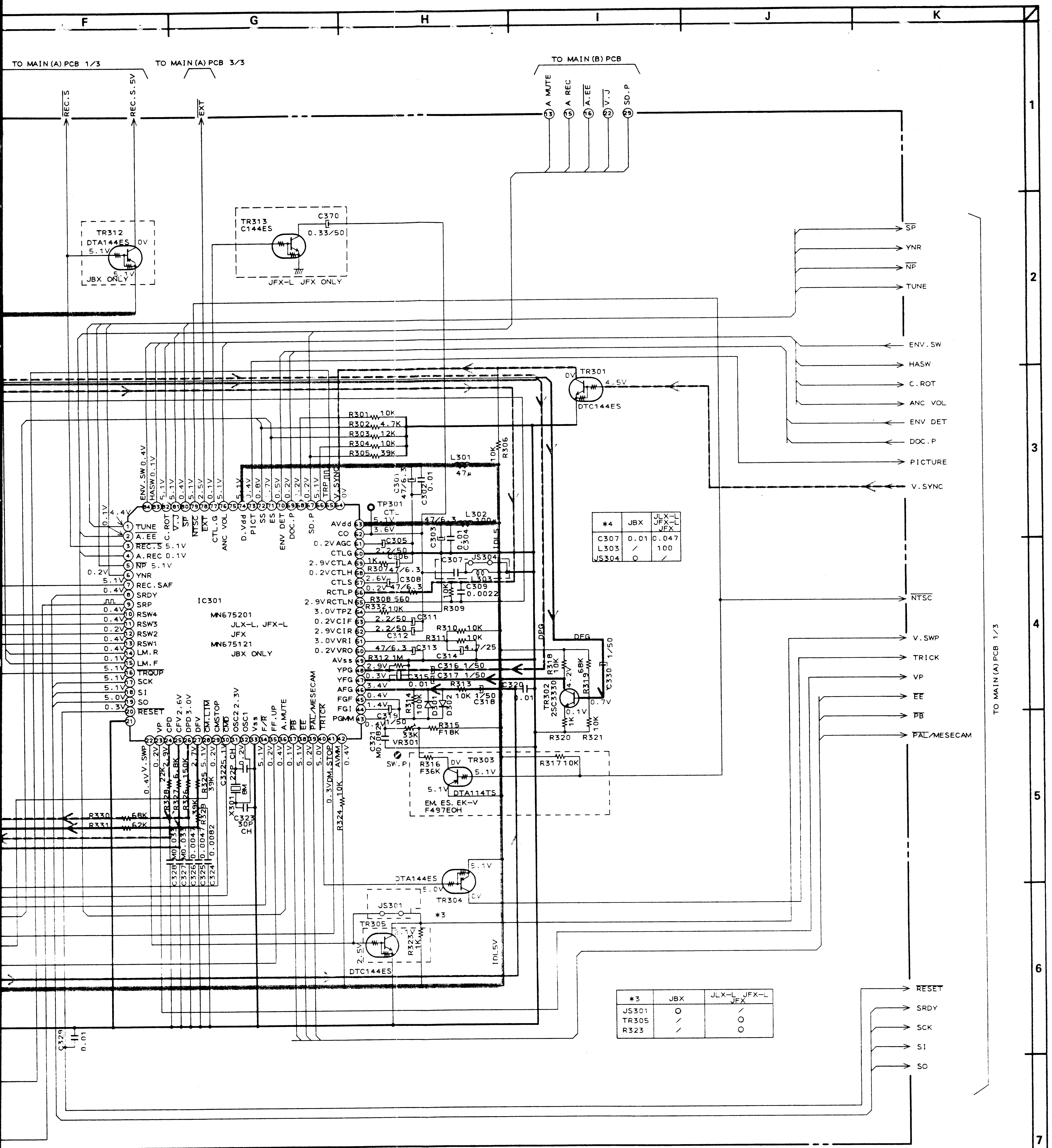


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO MAIN (A) PCB 3/3
DM.POW
CM.POW
P.GND
T.MUTE
PWM
BAND.B
BAND.A
AFT
AFT-H
TV/VCR
AFT-L
-35V
BUP5V
AC.4V
AC.4V
BAND.C
P.DOWN
GND
IDL5V
MOTOR13V
TO MAIN (A) PCB 1/3
IDL 5V
IDL 9V
REC.S
REC.S.5V
TO MAIN
IC302 BA6229
GND
OUT1
OUT DRIVE
REG Vol
LM.F
LM.R
VCC
OUT DRIVE
OUT2
FR350 1/4W 0.47
C350 0.022
C351 0.01
3.9V
0V
0V
14.2V
3.2V
C353 1/50
LM+
LM-
C352 0.01
C354 1/50
D303 UTZJ7.5C
D304 UTZJ10A
TR306 DTC144ES
5.1V
TR312 DTA144ES 5.1V 0V
JBX ONLY
TO CTL HEAD
WP801-2
CTL+
CTL.-
TO DRUM MOTOR
P301
FG
GND
FG
DM POWER
M.GND
CONT
R350 2(1/6W)
R351 2(1/6W)
R353 470K
C355 M0.022
9.3V
R352 20K
2.5V
D305
D306
D307
DM.STOP
R356 F10K
R357 F8.2K
F750 R358
R355 22K
R354 510K
R373 130K
C358 33/6.3
R361 22K
R360 22K
R359 22K
DTA144TS
TR307
2.6V
1.9V
C357 1/50
C356 4.7/25
IC303 BA15218N
TR308 2.6V
R362 2.2K
5.2V
2.8V
C359 2.2/50
DTA144TS
R363 6.2K
R364 680K
R366 2.2K
R365 18K
2/2
DTA144TS 3.1V
C360 4.7/35
TR309 2.6V
5.2V
R369 F3.3K
R368 F20K
R367 F22K
TR310 DTC144ES
C361 1/50
R370 10K
R371 47K
R372 33K
R374 15K
R375 4.7K
R376 1K
D308
CPD
CFV
CMD
CM.STOP
R349 10K
IDL5V
TO CAPSTAN MOTOR
P302
FWD/REV
FG
CM.CONT
LIMIT
IDL5V
GND
CM.POWER
P.GND
C371 47/16
C363 47/16
R377 F2.2K
R378
C362 1/50
*2
D309
R379 F6.2K
R380
R395
D310
R381 10K
R382 10K
R383 10K
R384 10K
C348 0.022
TO SENSOR PCB WP1
P303
S.SENS
RSW1
RSW2
RSW3
RSW4
IDL5V
T.REEL.P
END.SENS
S.REEL.P
GND
LM+
LM-
REC.SAF
R385 10K
C349 0.022
AC4V
AC4V
*5 NOT USE EM MODEL
R335
R336
JS305
R386
R387
R388
R389
R390
R391
JS302
TRP
IC304 LA6358
R392
SRP
*1
R393
JS303
C364 0.01
C365 0.01
C366 0.01
C367 0.01
C368 0.01
R394 100
C369 0.022F/5.5
EM ONLY
WP301
TO SUB PCB P1
AC 4V IN
AC 4V IN
AC 4V OUT
P304
-35V
GND
AC4V
PWM
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP5V
T.MUTE
AC4V
BAND.C
TO OPERATION (A) PCB WP1
R330 68K
R331 62K
ENV.SW 0.4V
HASW 0.1V
C.ROT
V.J
SP
NTSC
TUNE
A.EE
REC.S 5.1V
A.REC 0.1V
NP 5.1V
YNR
REC.SAF
SRDY
SRP
RSW4
RSW3
RSW2
RSW1
LM.R
LM.F
TRQUP
SCK
SI
SO
RESET
V.SWP
VP
CPD
CFV 2.6V
DPD 3.0V
DFV
C329 0.01

*2	JBX JLX-L JFX-L	JFX
D310	/	O
R380	F2.4K	F1.5K
R395	/	F30K
R378	F10K	F7.5K

*5	JBX JLX-L JFX-L					JFX
	EA EK	ES	EDG EDI	EO EOH EOG	EOG -V	
R335	8.2	8.2	16	12	11	/
R336	11	7.5	18	9.1	9.1	/
JS305	/	/	/	/	/	O

*1	JBX JLX-L JFX-L	JFX
IC304	/	O
R386	/	20K
R387	13K	20K
R388	13K	56K
R389	/	56K
R390	/	36K
R391	/	36K
R392	/	56K
R393	/	56K
JS302	O	/
JS303	O	/


TO MAIN (A) PCB 1/3
TO MAIN (A) PCB 3/3
TO MAIN (B) PCB
REC.S
REC.S.5V
EXT
A MUTE
A REC
A.EE
V.J
SD.P
TR312
DTA144ES
JBX ONLY
TR313
C144ES
C370
0.33/50
JFX-L JFX ONLY
SP
YNR
NP
TUNE
ENV.SW
HASW
C.ROT
ANC VOL
ENV DET
DOC.P
PICTURE
V.SYNC
NTSC
V.SWP
TRICK
VP
EE
PB
PAL/MESECAM
RESET
SRDY
SCK
SI
SO
TO MAIN (A) PCB 1/3
TR301
DTC144ES
L301
47μ
L302
TP301
IC301
MN675201
JLX-L, JFX-L
JFX
MN675121
JBX ONLY
TR302
2SC3330
TR303
DTA114TS
EM, ES, EK-V
F497EOH
VR301
SW.P
X301
8M
TR304
DTA144ES
TR305
DTC144ES
JS301
*3
IDL5V
DPG
DFG
C329
0.01

*4	JBX	JLX-L JFX-L JFX
C307	0.01	0.047
L303	⁄	100
JS304	O	⁄

*3	JBX	JLX-L JFX-L JFX
JS301	O	⁄
TR305	⁄	O
R323	⁄	O

JFX
O
20K
20K
56K
36K
36K
56K
56K
⁄
⁄

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF) 50WV
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T

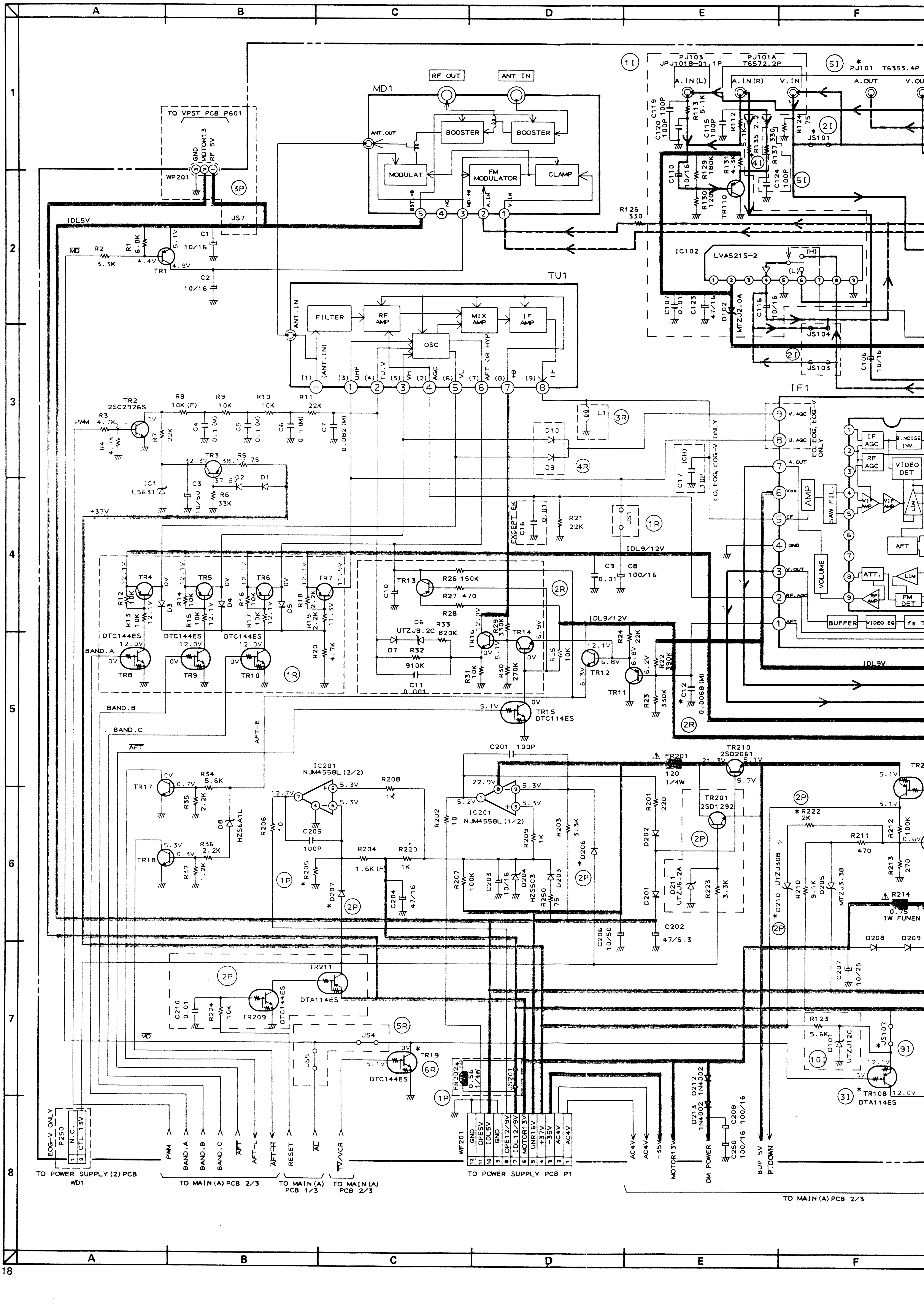
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.

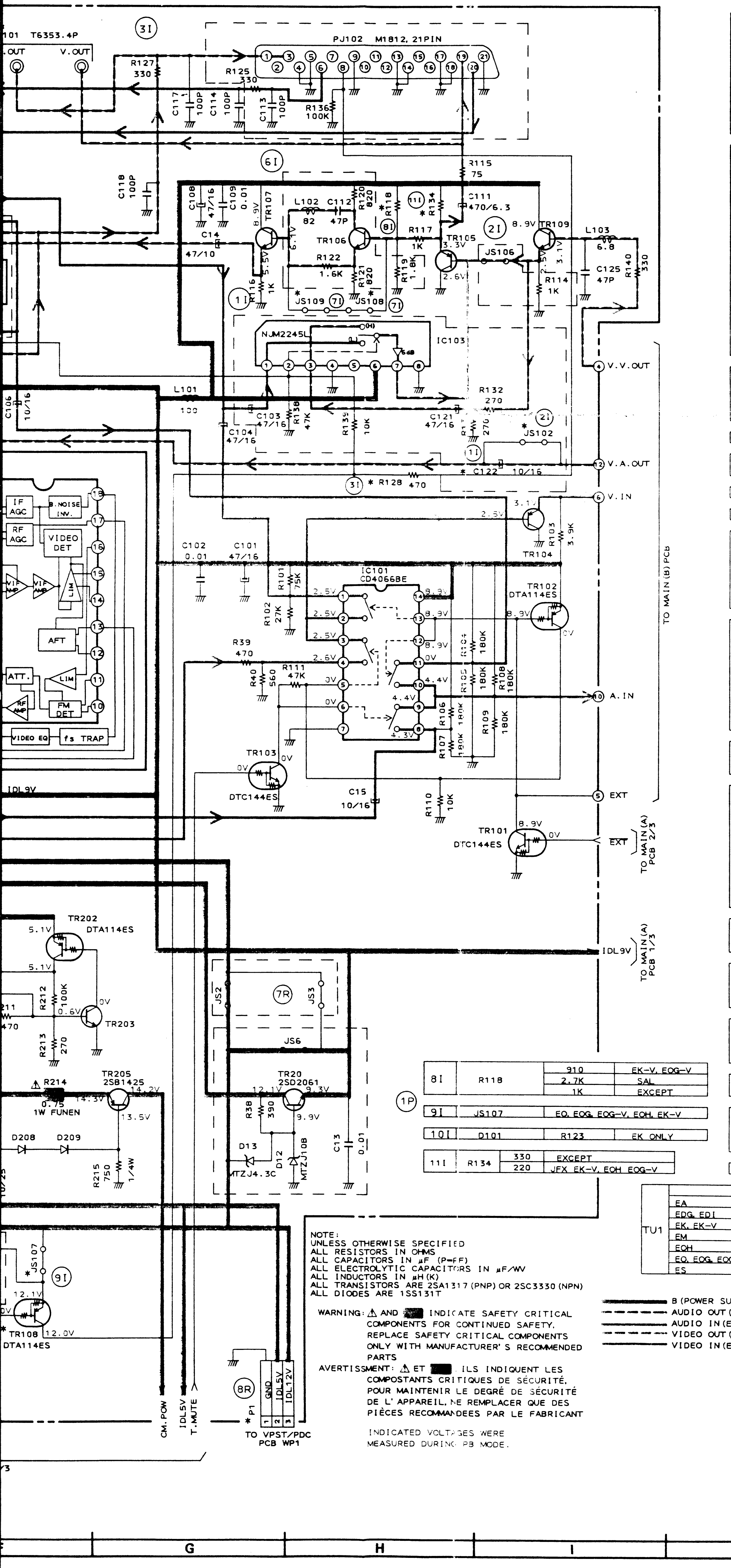
B (POWER SUPPLY) LINE
CAPSTAN MOTOR SPEED CONTROL LINE
CAPSTAN MOTOR PHASE CONTROL LINE
DRUM MOTOR SPEED CONTROL LINE
DRUM MOTOR PHASE CONTROL LINE

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

JBX
MAIN (A) 2/3
(SERVO, SYSCON BLK)
SCHEMATIC DIAGRAM
No.18-6 V114606M
A1


A
B
C
D
E
F
1
2
3
4
5
6
7
8
RF OUT
ANT IN
MD1
ANT. OUT
BOOSTER
BOOSTER
MODULAT
FM MODULATOR
CLAMP
BST.+B
NC
MD.+B
A.IN
V.IN
TO VPST PCB P601
GND
MOTOR13
RF 5V
WP201
3P
JS7
IDL5V
MD
R2 3.3K
R1 6.8K
5.1V
4.4V
4.9V
TR1
C1 10/16
C2 10/16
TU1
ANT.IN
FILTER
RF AMP
MIX AMP
IF AMP
OSC
(ANT.IN)
UHF
TU.V
VH
AGC
VL
AFT OR HYP
+B
IF
TR2 2SC2926S
PWM
R3 4.7K
R4 4.7K
R7 22K
R8 10K (F)
R9 10K
R10 10K
R11 22K
C4 0.1 (M)
C5 0.1 (M)
C6 0.1 (M)
C7 0.082 (M)
TR3
R5 75
D2
D1
C3 10/50
R6 33K
IC1 L5631
+37V
L1
3R
D10
D9
4R
C17 10P
(CH)
EQ, EQG, EQG-V ONLY
EXCEPT EK C16 0.01
R21 22K
JS1
1R
IDL9/12V
C9 0.01
C8 100/16
TR4
TR5
TR6
TR7
R12 10K
R13 10K
R14 10K
R15 10K
R16 10K
R17 10K
R18 2.2K
R19 2.2K
R20 4.7K
D3
D4
D5
12.1V
12.0V
11.9V
11.3V
0V
DTC144ES
BAND.A
TR8
TR9
TR10
1R
TR13
C10
R26 150K
R27 470
R28
2R
D6 UTZJ8.2C
R33 820K
D7
R32 910K
C11 0.001
TR16
R29 330K
R31 10K
R30 270K
TR14
6.9V
5.1V
R25 10K
TR12
12.1V
6.8V
6.3V
6.2V
R24 22K
R22 390K
TR11
R23 330K
C12 0.0068 (M)
IDL9/12V
IDL9V
2R
TR15 DTC114ES
BAND.B
BAND.C
AFT
AFT-E
C201 100P
IC201 NJM4558L (2/2)
12.7V
5.3V
R208 1K
R206 10
C205 100P
R204 1.6K (F)
R220 1K
R205
D207
1P
2P
C204 47/16
TR17
R34 5.6K
0.7V
R35 2.2K
D8 HZS6A1L
TR18
R36 2.2K
0.3V
R37 1.2K
R202 10
IC201 NJM4558L (1/2)
22.9V
R209 1K
R203 3.3K
D206
R207 100K
C203 10/16
D204 HZS5C3
R250 75
D203
C206 10/50
FR201 120 1/4W
21.3V
TR210 2SD2061
5.7V
TR201 2SD1292
R201 220
D202
D201
D211 UTZJ6.2A
R223 3.3K
C202 47/6.3
2P
R222 2K
R211 470
R212 100K
R213 270
D210 UTZJ30B
R210 9.1K
D205 MTZJ3.3B
R214 0.75 1W FUNEN
D208
D209
C207 10/25
TR2
0.6V
TR211 DTA114ES
TR209 DTC144ES
C210 0.01
R224 10K
JS4
JS5
5R
TR19 DTC144ES
6R
FR202 0.56 1/4W
JS201
R123 5.6K
D101 UTZJ12C
JS107
10I
9I
TR108 DTA114ES
3I
12.0V
(1I)
PJ103 JPJ1018-01 1P
PJ101A T6572.2P
5I
PJ101 T6353.4P
A.IN(L)
A.IN(R)
V.IN
A.OUT
V.OUT
C119 100P
C120 100P
R113 5.1K
C115 100P
R112
R135 2.2
R124 75
R137 330
JS101
2I
C110 10/16
R129 180K
R131 4.3K
4I
C124 100P
R130 120
TR110
R126 330
IC102 LVA521S-2
(H)
(L)
C107 0.01
C123 47/16
D102 MTZJ2.0A
C116 10/16
JS104
JS103
C106 10/16
IF1
V.AGC
U.AGC
A.OUT
Vcc
IF
GND
V.OUT
RF.AGC
AFT
IF AGC
RF AGC
B.NOISE INV.
VIDEO DET
AMP
SAW FIL.
VIF AMP
LIM
AFT
VOLUME
ATT.
FM DET
RF AMP
BUFFER
VIDEO EQ
EQ, EQG, EQG-V ONLY
EQG-V ONLY
P250
N.C.
CTL 13V
TO POWER SUPPLY (2) PCB WD1
PWM
BAND.A
BAND.B
BAND.C
AFT
AFT-L
AFT-H
RESET
AL
TV/VCR
TO MAIN (A) PCB 2/3
TO MAIN (A) PCB 1/3
TO MAIN (A) PCB 2/3
WF201
GND
OPE5V
IDL5V
GND
OPE12/9V
IDL12/9V
MOTOR13V
UNR16V
+37V
-35V
AC4V
AC4V
TO POWER SUPPLY PCB P1
AC4V
AC4V
-35V
MOTOR13V
D212 1N4002
D213 1N4002
C208 100/16
C250 100/16
DM POWER
BUP 5V
P.DOWN
TO MAIN (A) PCB 2/3


PJ102 M1812, 21PIN
T6353.4P
V.OUT
R127 330
R125 330
C117 100P
C114 100P
C113 100P
R136 100K
C118 100P
R115 75
C111 470/6.3
TR107
L102 82
C112 47P
TR106
R118
R134
R117 1K
TR105
TR109
L103 6.8
R140 330
C125 47P
JS106
R114 1K
R122 1.6K
R121 820
R119 1.8K
R116 1K
JS109
JS108
C108 47/16
C109 0.01
C14 47/10
NJM2245L
IC103
R132 270
C103 47/16
C104 47/16
R138 47K
R139 10K
C121 47/16
JS102
C122 10/16
R128 470
V.V.OUT
V.A.OUT
V.IN
L101 100
C106 10/16
IF AGC
RF AGC
VIDEO DET
B.NOISE INV.
AFT
ATT.
LIM
FM DET
RF AMP
VIDEO EQ
fs TRAP
TR104
R103 3.9K
C102 0.01
C101 47/16
IC101 CD4066BE
R101 75K
R102 27K
TR102 DTA114ES
R39 470
R40 560
R111 47K
R104 180K
R105 180K
R108 180K
R106 180K
R107 180K
R109 180K
A.IN
TR103 DTC144ES
C15 10/16
R110 10K
EXT
TR101 DTC144ES
TO MAIN (B) PCB
TO MAIN (A) PCB 2/3
IDL9V
TO MAIN (A) PCB 1/3
TR202 DTA114ES
R212 100K
TR203
R213 270
JS2
JS3
JS6
TR20 2SD2061
R38 390
D13 MTZJ4.3C
D12 MTZJ10B
C13 0.01
R214 0.75 1W FUNEN
TR205 2SB1425
D208
D209
R215 750 1/4W
JS107
TR108 DTA114ES
CM.POW
IDL5V
T.MUTE
P1
GND
IDL5V
IDL12V
TO VPST/PDC PCB WP1
1P
7R
8R
9I

1R	TR4, TR5, TR7	2SA1317	EXCEPT EK, EK-V
	TR8, TR9	DTC144ES	
	R12, R13, R14, R15	10K	
	R18, R19	2.2K	
	R20	4.7K	
	D3, D4	1SS131T	
	TR6	2SA1317	EOH ONLY
	TR10	DTC144ES	
	R16, R17	10K	
	D5	1SS131T	
	JS1		EK, EK-V

2R	TR13	2SA1317	EXCEPT EOH
	R26	150K	
	R27	470	
	C10	1/50	EK, EK-V, EOG, EOG-V EO, EM, JBX-ES
		2.2/50	EA, EDG, EDI, JFX-ES
	R28	910	EO, EOG, EOG-V, EK-V
		560	EA, EM, ES, EK, EDG, EDI
	TR14, TR16	2SC3330	EOH ONLY
	R29	330K	
	R30	270K	
	R31	10K	
	R32	910K	
	R33	820K	
	C11	0.001	
	C12	0.0068 (M)	
	D7	1SS131T	
	D6	UTZJ8.2C	

3R	L1	1.0	EA
		0.82	JFX-EOH
		0.68	EK, EK-V, EM
		NONE	EO, EOG, EOG-V, EDG, EDI, ES JBX-EOH, JLX-EOH

4R	D9, D10	1SS131T	EO, EOG, EOG-V

5R	JS4	EA, EM
	JS5	EXCEPT EA, EM

7R	JS2	EXCEPT EK-V
	JS3	EK-V ONLY

6R	TR19	DTC144ES	EXCEPT ES, EDG, EDI

8R	P1	PH 3P	EO, EOH, EOG, EOG-V, EK-V

1P	R205	1.3K (F)	EO, EOH, EOG, EOG-V, EK-V
		2.2K (F)	EA, EM, ES, EK, EDG, EDI
	TR20	2SD2061	EO, EOH, EOG, EOG-V, EK-V
	C13	0.01	
	R38	390	
	D12	D13	FR202
	JS6	JS201	EA, EM, ES, EK, EDG, EDI

2P	R222	2K	EOG, EOG-V ONLY
	R223	3.3K	
	R224	10K	
	D206, D207	1SS131T	
	D210	UTZJ30B	
	D211	UTZJ6.2A	
	TR201	2SD1292	
	TR209	DTC144ES	
	TR211	DTA114ES	
	C210	0.01	

3P	JS7	EXCEPT EOG, EOG-V
	WP201	EOG, EOG-V ONLY
	P250	EOG-V ONLY

1I	TR110	C121	JFX- EK-V EOH, EOG-V ONLY C115 EOG-V :H BLK
	IC102	C122	
	IC103	C123	
	C103	R112	
	C105	R113	
	C107	R129	
	C110	R130	
	C115	R131	D102
	C116	R132	R139
	C119	R133	PJ101A
	C120	R138	PJ103

2I	JS101	JS104	EXCEPT JFX EK-V EOH, EOG-V
	JS102	JS106	
	JS103	R114	

3I	PJ102	R125	EK, EO, EOG EK-V, EOG-V EOH
	C113	R128	
	C114	R136	
	TR108		

4I	R135	JBX, JLX- EK, EO, EOG, EOH, EK-V, EOG-V JFX- EO, EOG

5I	PJ101	R137	EA, EDG, EM ES, EDI
	C124		

6I	C112	R122	SAL
	R119	L102	
	R120	TR106	
	R121		

7I	JS108	JS109	EXCEPT SAL

8I	R118	910	EK-V, EOG-V
		2.7K	SAL
		1K	EXCEPT

9I	JS107	EO, EOG, EOG-V, EOH, EK-V

10I	D101	R123	EK ONLY

11I	R134	330	EXCEPT
		220	JFX EK-V, EOH EOG-V

		JBX	JLX	JFX
TU1	EA	VTSS6AZ EA	←	←
	EDG, EDI	TERR1-001A	←	←
	EK, EK-V	TERB1-008A	←	←
	EM	VTSB6CZ	←	←
	EOH	ENV-57883F1	←	TERE3-001B
	EO, EOG, EOG-V	TERE1-007B	←	←
	ES	TUMUF3S-292	TERZ1-004A	←

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=FF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL INDUCTORS IN μH (K)
ALL TRANSISTORS ARE 2SA1317 (PNP) OR 2SC3330 (NPN)
ALL DIODES ARE 1SS131T

WARNING: ⚠ AND ■ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ■. ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

━━━ B (POWER SUPPLY) LINE
— — — AUDIO OUT (E-E, PB) LINE
——— AUDIO IN (E-E, REC) LINE
- - - VIDEO OUT (E-E, PB) LINE
——— VIDEO IN (E-E, REC) LINE

MD1	YAA21-0453	EA
	YAA21-0454	EM
	ENC87975	EO, EOG, EOG-V, EOH
	ENC87976	EK, EK-V
	MDLK6B013B	ES
	MDLK6E333A	EDG
	MDLK6E766A	EDI

JBX
MAIN (A) 3/3
SCHEMATIC DIAGRAM
No.18-7 V114607M
A1

PRINCIPAL PARTS LOCATION

ICS

IC101	D5
IC102	D,E5
IC103	D5
IC201	F4,5
IC301	E1,2
IC302	F1,2
IC303	E,F3
IC304	F2
IC400	C3
IC401	C,D4
IC402	C,D1
IC403	C5

WF & WP

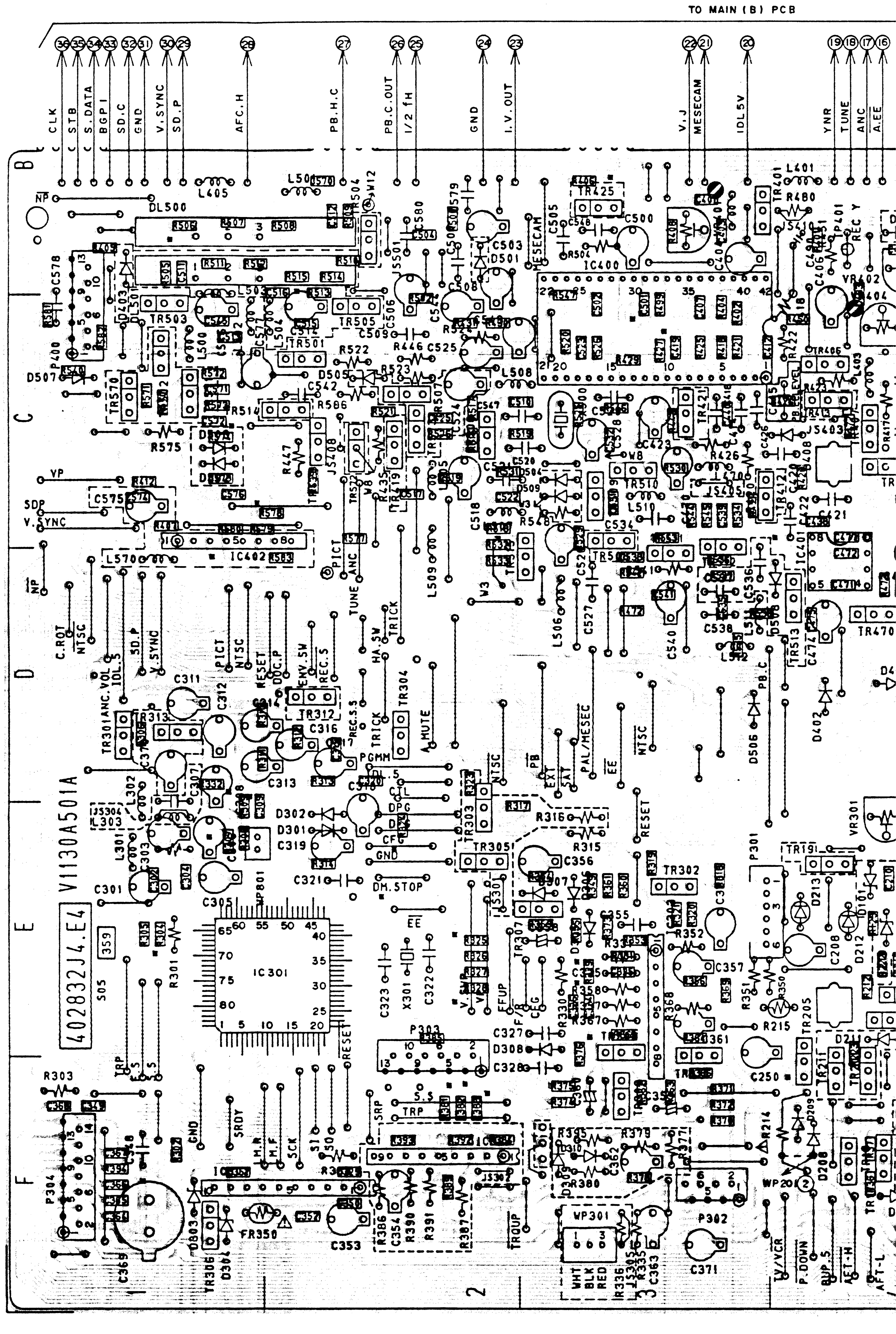
WF201	F4,5
WP301	F3
WP801	E1,2

CONNECTORS

P1	E,F5
P250	F4
P301	E3
P302	F4
P303	E2
P304	F1
P400	B,C1
P401	D5
P402	B5

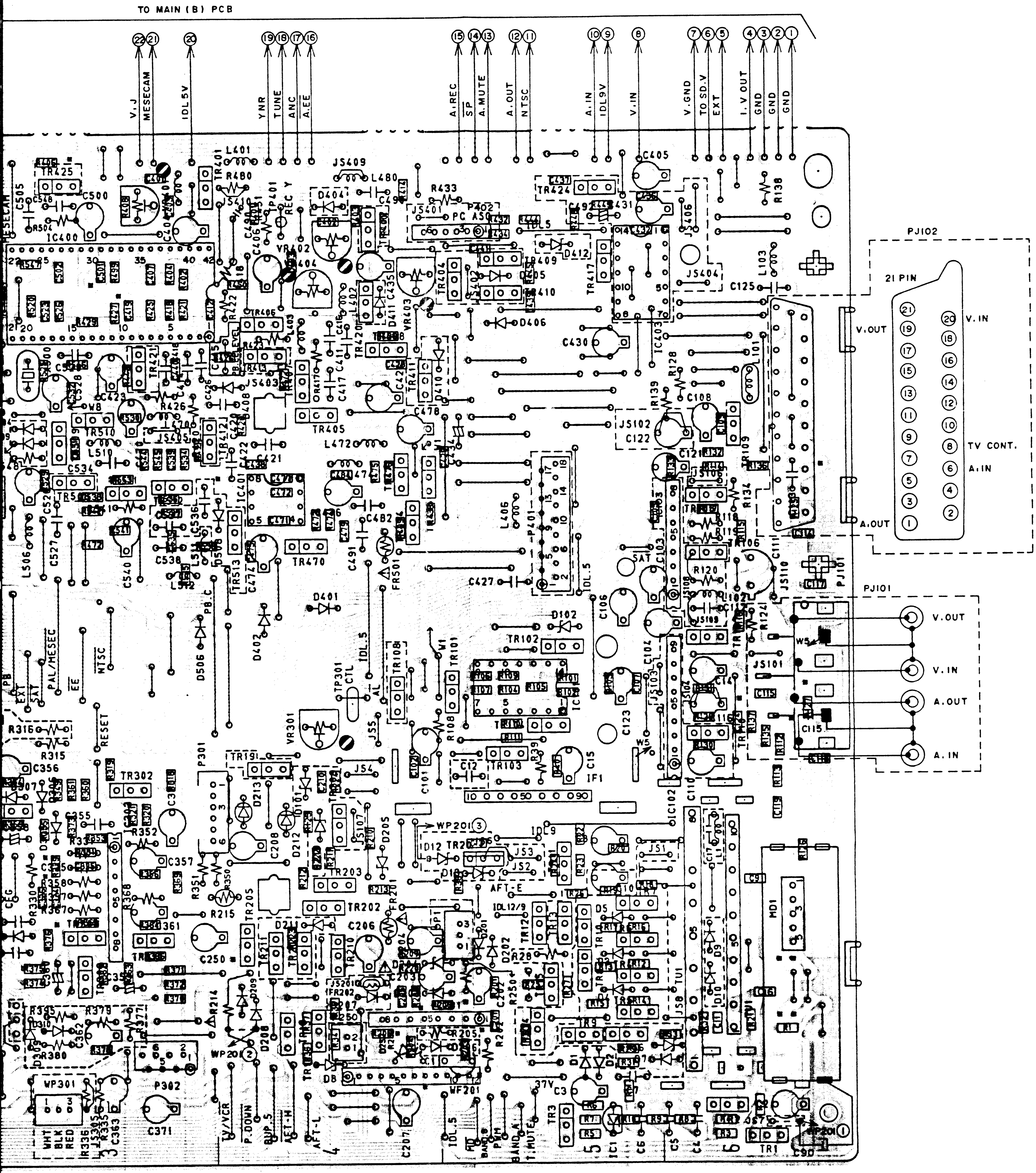
TRANSISTORS

TR1	F6
TR2	F6
TR3	F5
TR4	F5
TR5	F5
TR6	F5
TR7	E5
TR8	F5
TR9	F5
TR10	E,F5
TR11	E5
TR12	E5
TR13	E,F5
TR14	F5
TR15	F5
TR16	F5
TR17	F4
TR18	F4
TR19	E4
TR20	E5
TR101	D5
TR102	D5
TR103	E5
TR104	E5
TR105	D6
TR106	D6
TR107	D6
TR108	D4
TR109	C6
TR110	E6
TR201	F4
TR202	E4
TR203	E4
TR205	E,F4
TR209	F4
TR210	E,F4
TR211	F4
TR301	D1
TR302	E3
TR303	D,E2
TR304	D2
TR305	E2
TR306	F1
TR307	E3
TR308	E,F4
TR309	F3
TR310	E,F3
TR312	D2
TR313	D1
TR401	B3
TR402	B4
TR404	C5
TR406	C4
TR407	C4
TR408	C4
TR409	C5
TR410	C5
TR411	C4
TR412	C3
TR413	C4
TR414	D4
TR415	C4
TR417	C5
TR419	C2
TR420	C4
TR421	C3
TR423	C2
TR424	B5
TR425	B3
TR470	D4
TR471	C4
TR501	C2
TR502	C1
TR503	C1
TR504	C1
TR505	C2
TR506	C2
TR507	C2
TR508	C,D3
TR509	C3
TR510	C3
TR511	D3
TR512	C,D3
TR513	D4
TR514	C2
TR515	C2
TR570	C1
TR571	C1
TR572	C2
TR573	C2


TO MAIN (B) PCB
CLK
STB
S.DATA
BGP1
SD.C
GND
V.SYNC
SD.P
AFC.H
PB.H.C
PB.C.OUT
1/2 fH
GND
I.V.OUT
V.J
MESECAM
IDL5V
YNR
TUNE
ANC
A.EE
B
C
D
E
F
1
2
3
V1130A501A
402832J4.E4
IC301
IC400
IC402
DL500
L405
TR503
TR501
TR505
TR570
P400
D507
R575
R586
C575
VP
SDP
V.SYNC
NP
C.ROT
NTSC
TR312
TR313
TR301
TR303
TR305
TR302
TR304
TR307
TR306
P301
P302
P303
P304
WP301
WP801
C369
C353
FR350
C371
TRIG
TRICK
A.MUTE
PAL/MESEC
RESET
DM.STOP
EE
X301
WHT
BLK
RED
P.DOWN
V/VCR
WP201

MAIN (A) PCB V1130A5

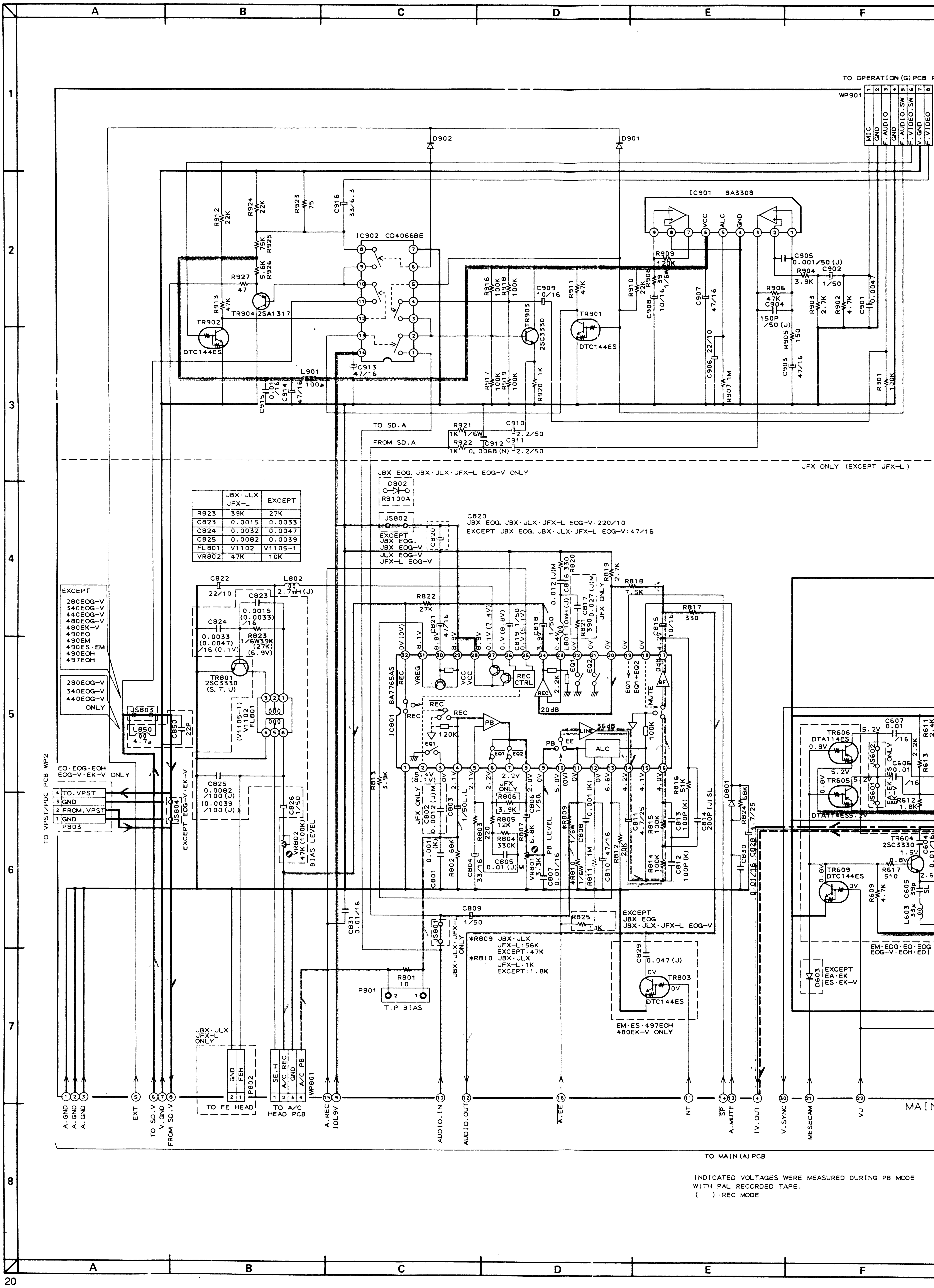
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.


TO MAIN (B) PCB
V.J
MESECAM
IDL5V
YNR
TUNE
ANC
A.EE
A.REC
SP
A.MUTE
A.OUT
NTSC
A.IN
IDL9V
V.IN
V.GND
TO SD.V
EXT
I.V OUT
GND
GND
GND
PJ102
21 PIN
V.OUT
V.IN
TV CONT.
A.IN
A.OUT
PJ101
V.OUT
V.IN
A.OUT
A.IN
IC400
IC401
IC403
IC102
TU1
MD1

MAIN (A) PCB V1130A501A (J4)

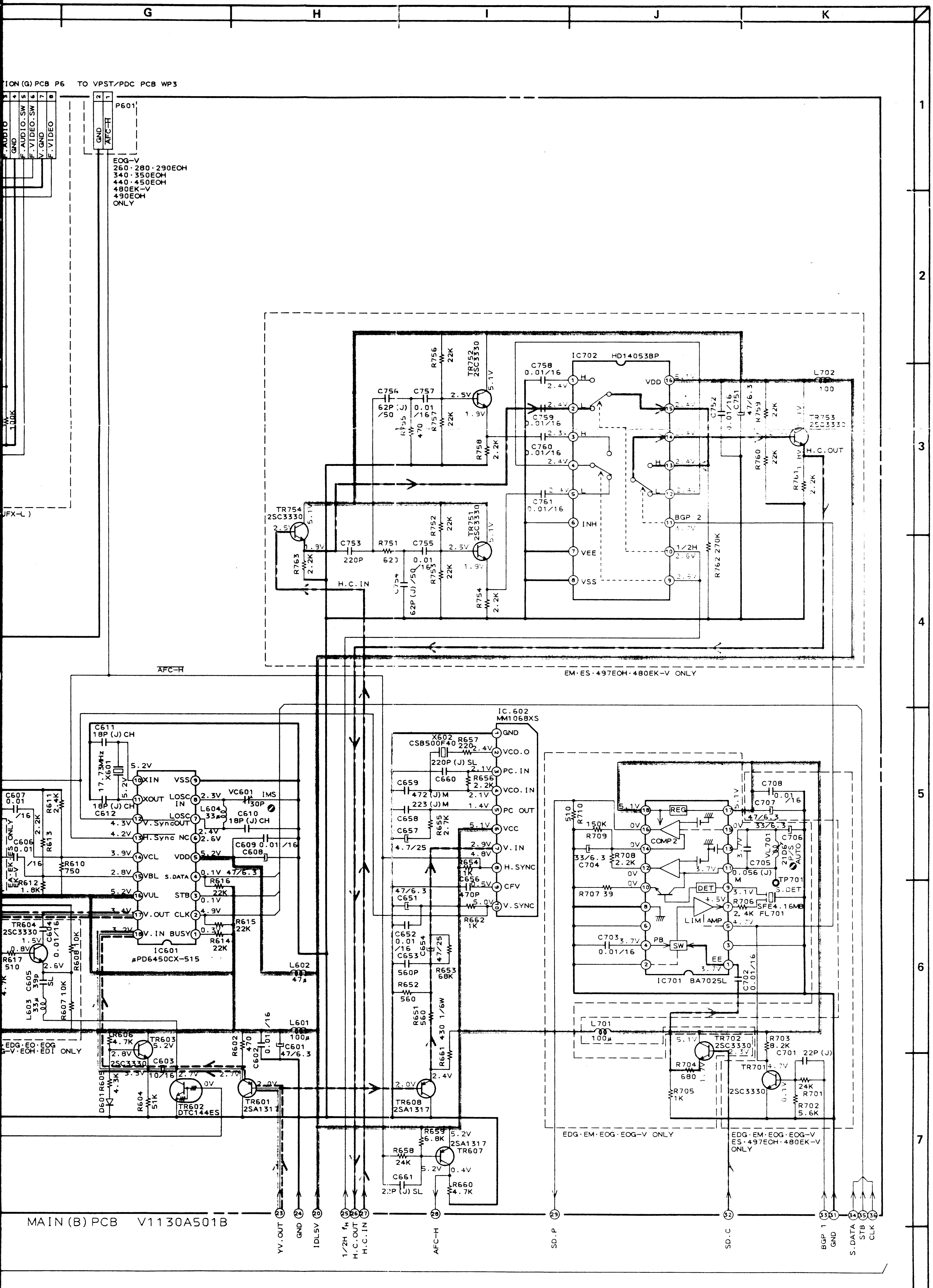
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


TO OPERATION (G) PCB
WP901
MIC
GND
F.AUDIO
GND
F.AUDIO.SW
F.VIDEO.SW
V.GND
F.VIDEO
D902
D901
IC901 BA3308
IC902 CD4066BE
TR902 DTC144ES
TR904 2SA1317
TR903 2SC3330
TR901 DTC144ES
TO SD.A
FROM SD.A
JFX ONLY (EXCEPT JFX-L)
JBX EOG, JBX·JLX·JFX-L EOG-V ONLY
D802 RB100A
JS802
C820
JBX EOG, JBX·JLX·JFX-L EOG-V: 220/10
EXCEPT JBX EOG, JBX·JLX·JFX-L EOG-V: 47/16
EXCEPT 280EOG-V 340EOG-V 440EOG-V 480EOG-V 480EK-V 490EO 490EM 490ES·EM 490EOH 497EOH
280EOG-V 340EOG-V 440EOG-V ONLY
TR801 2SC3330 (S, T, U)
FL801
IC801 BA7765AS
REC CTRL
ALC
MUTE
VR802 47K (100K) BIAS LEVEL
VR801 3.3K PB LEVEL
EO·EOG·EOH EOG-V·EK-V ONLY
TO VPST/PDC PCB WP2
P803
4 TO.VPST
3 GND
2 FROM.VPST
1 GND
EXCEPT EOG-V·EK-V
JS804
JS803
L850 4.7μ
JS801
*R809 JBX·JLX JFX-L: 56K EXCEPT: 47K
*R810 JBX·JLX JFX-L: 1K EXCEPT: 1.8K
EXCEPT JBX EOG JBX·JLX·JFX-L EOG-V
TR803 DTC144ES
EM·ES·497EOH 480EK-V ONLY
P801 T.P BIAS
JBX·JLX JFX-L ONLY
P802 TO FE HEAD
WP801 TO A/C HEAD PCB
A.GND
A.GND
A.GND
EXT
TO SD.V
V.GND
FROM SD.V
A.REC
IDL9V
AUDIO.IN
AUDIO.OUT
A.EE
NT
SP
A.MUTE
IV.OUT
V.SYNC
MESECAM
VJ
TO MAIN (A) PCB
TR606 DTA114ES
TR605 DTA114ES
TR604 2SC3330
TR609 DTC144ES
D603 EXCEPT EA·EK ES·EK-V
EM·EOG·EO·EOG EOG-V·EOH·EOI

	JBX·JLX JFX-L	EXCEPT
R823	39K	27K
C823	0.0015	0.0033
C824	0.0032	0.0047
C825	0.0082	0.0039
FL801	V1102	V1105-1
VR802	47K	10K

INDICATED VOLTAGES WERE MEASURED DURING PB MODE WITH PAL RECORDED TAPE.
( ) : REC MODE


G
H
I
J
K
1
2
3
4
5
6
7
8
ION (G) PCB P6
TO VPST/PDC PCB WP3
F.AUDIO
GND
F.AUDIO.SW
F.VIDEO.SW
V.GND
F.VIDEO
P601
GND
AFC-H
EOG-V
260·280·290EOH
340·350EOH
440·450EOH
480EK-V
490EOH
ONLY
JFX-L)
AFC-H
IC702 HD14053BP
C758 0.01/16
C759 0.01/16
C760 0.01/16
C761 0.01/16
INH
VEE
VSS
VDD
BGP 2
1/2H
L702 100
TR753 2SC3330
H.C.OUT
R760 22K
R761 2.2K
R762 270K
C752 0.01/16
C751 47/6.3
R759 22K
R756 22K
TR752 2SC3330
C756 62P (J)/50
C757 0.01/16
R755 470
R757 22K
R758 2.2K
TR754 2SC3330
C753 220P
R751 620
C755 0.01/16
R752 22K
TR751 2SC3330
C754 62P (J)/50
R753 22K
R754 2.2K
R763 2.2K
H.C.IN
EM·ES·497EOH·480EK-V ONLY
IC.602 MM1068XS
X602 CSB500F40
R657 220
GND
VCO.O
PC.IN
VCO.IN
PC OUT
VCC
V.IN
H.SYNC
CFV
V.SYNC
C659 472 (J) M
C660 220P (J) SL
R656 2.2K
C658 223 (J) M
C657 4.7/25
R655 4.7K
R654 1K
C656 470P
C651 47/6.3
R662 1K
C652 0.01/16
C653 560P
C654 47/25
R653 68K
R652 560
R651 560
R661 430 1/6W
TR608 2SA1317
R659 6.8K
R658 24K
TR607 2SA1317
C661 22P (J) SL
R660 4.7K
C611 18P (J) CH
X601 17.734MHz
C612 18P (J) CH
IC601 µPD6450CX-515
XIN
XOUT
V.SyncOUT
H.Sync
VCL
VBL
VUL
V.OUT
V.IN
VSS
LOSC IN
LOSC OUT
NC
VDD
S.DATA
STB
CLK
BUSY
VC601 30P
L604 33µ
C610 18P (J) CH
C609 0.01/16
C608 47/6.3
R616 22K
R615 22K
R614 22K
L602 47µ
L601 100µ
C601 47/6.3
C602 0.01/16
R602 470
C607 0.01
R611 2.4K
R613 2.2K
C606 0.01
R610 750
R612 1.8K
TR604 2SC3330
C604 0.01/16
R608 10K
R617 510
C605 39P SL
L603 33µ
R607 10K
EDG·EO·EOG
G-V·EOH·EDI ONLY
R606 4.7K
TR603 2SC3330
C603 10/16
R609 4.3K
D601
R604 51K
TR602 DTC144ES
TR601 2SA1317
IC701 BA7025L
REG
COMP2
DET
LIM AMP
SW
PB
EE
R710 510
R709 150K
R708 2.2K
C704 33/6.3
R707 39
C703 0.01/16
C708 0.01/16
C707 47/6.3
C706 33/6.3
VL701 210K P/S AUTO
C705 0.056 (J)
TP701 S.DET
R706 2.4K
FL701 SFE4.16MB
C702 0.01/16
L701 100µ
TR702 2SC3330
R703 8.2K
C701 22P (J)
R704 680
R705 1K
TR701 2SC3330
R701 24K
R702 5.6K
EDG·EM·EOG·EOG-V ONLY
EDG·EM·EOG·EOG-V
ES·497EOH·480EK-V
ONLY
MAIN (B) PCB V1130A501B
YV.OUT
GND
IDL5V
1/2H fH
H.C.OUT
H.C.IN
AFC-H
SD.P
SD.C
BGP 1
GND
S.DATA
STB
CLK

PB MODE

- B (POWER SUPPLY) LINE
- PB AUDIO SIGNAL LINE
- REC AUDIO SIGNAL LINE
- PB Y SIGNAL LINE
- PB CHROMA SIGNAL LINE
- VIDEO IN (REC, E-E) SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF
ALL DIODE ARE 1SS131T

JBX
MAIN (B)
SCHEMATIC DIAGRAM
No.18-8 V114608M
A1

PRINCIPAL PARTS LOCATION

ICS

IC601	A3
IC602	A1
IC701	A1
IC702	A2
IC801	A4
IC901	A5
IC902	A6

WPS

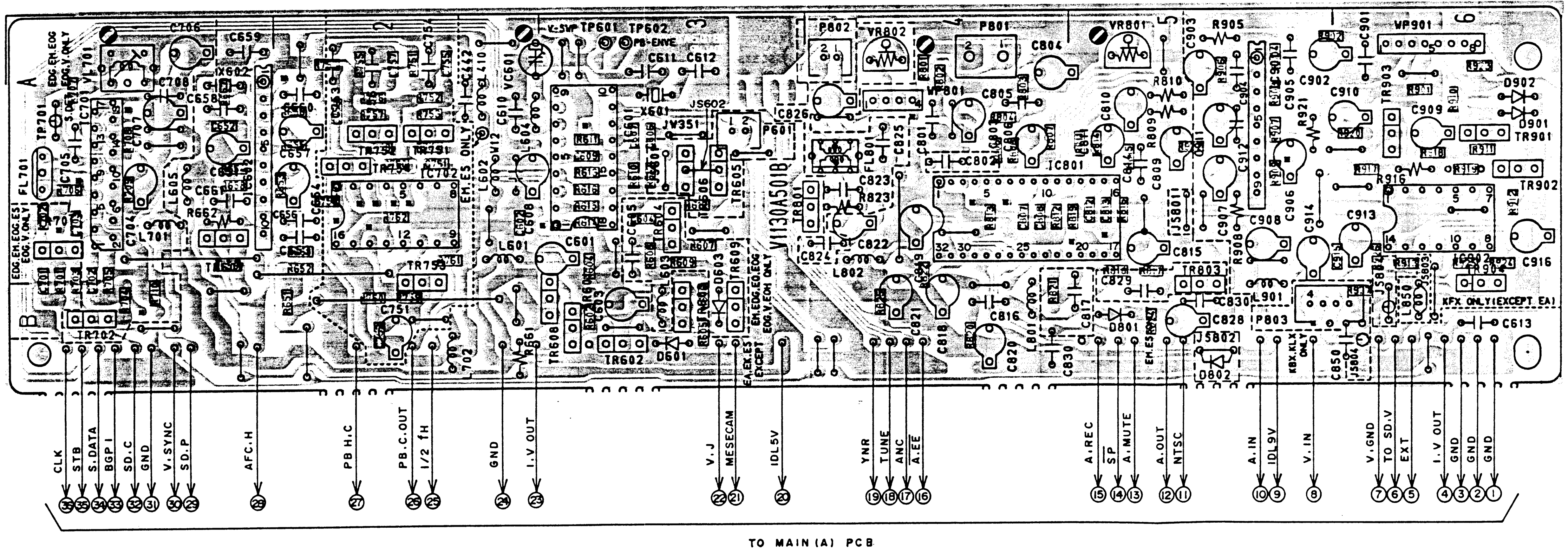
WP801	A4
WP901	A6

CONNECTORS

P601	A3
P801	A4
P802	A4
P803	A5,6

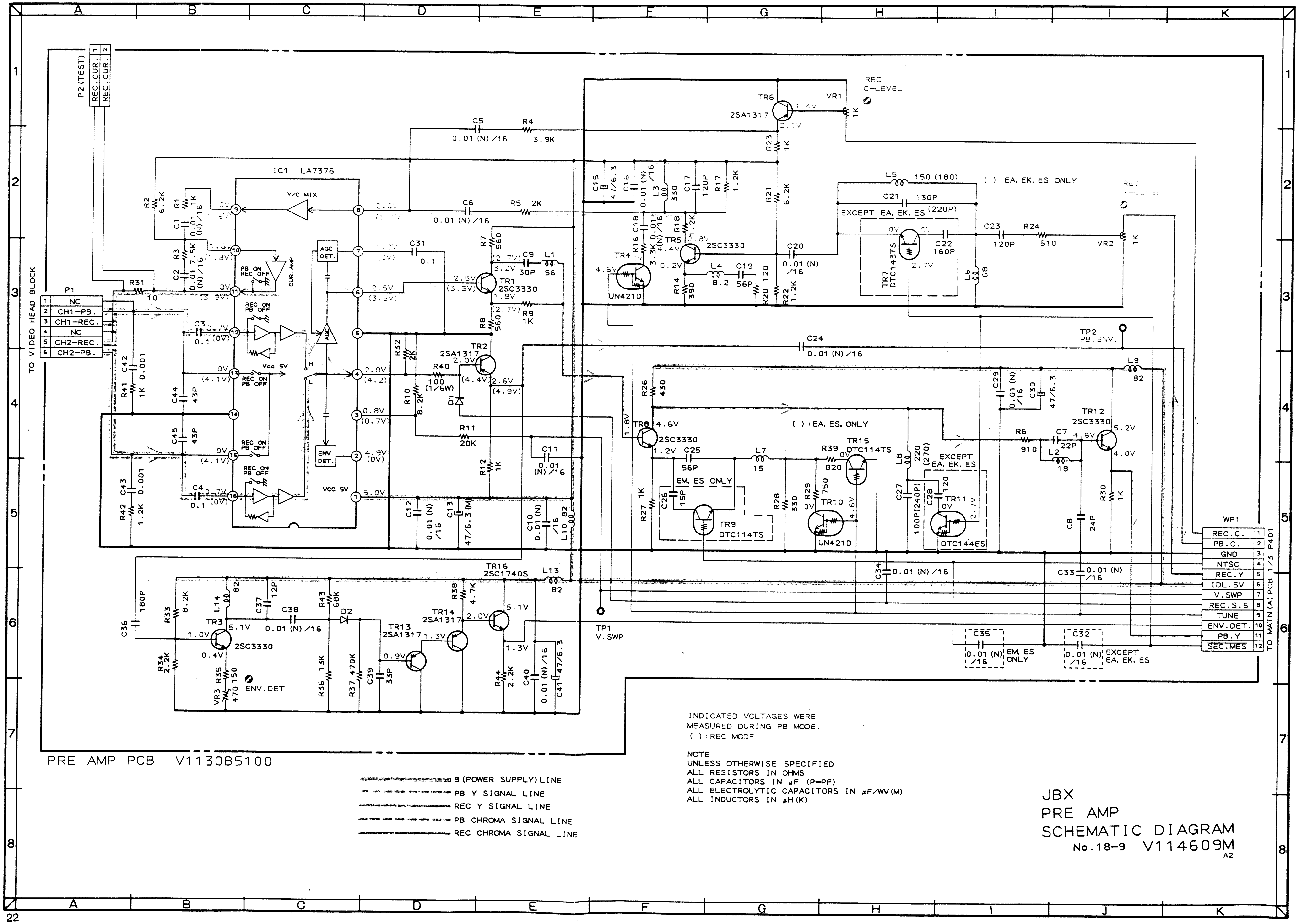
TRANSISTORS

TR601	A3
TR602	A3
TR603	A3
TR604	A3
TR605	A3
TR606	A3
TR607	A1
TR608	A3
TR609	A3
TR701	A1
TR702	A1
TR751	A2
TR752	A2
TR753	A2
TR754	A2
TR801	A4
TR803	B5
TR901	A6
TR902	A6
TR903	A6
TR904	B6


CLK ㊱
STB ㉟
S.DATA ㉞
BGP I ㉝
SD.C ㉜
GND ㉛
V.SYNC ㉚
SD.P ㉙
AFC.H ㉘
PB H.C ㉗
PB.C.OUT ㉖
1/2 fH ㉕
GND ㉔
I.V OUT ㉓
V.J ㉒
MESECAM ㉑
IDL5V ⑳
YNR ⑲
TUNE ⑱
ANC ⑰
A.EE ⑯
A.REC ⑮
SP ⑭
A.MUTE ⑬
A.OUT ⑫
NTSC ⑪
A.IN ⑩
IDL9V ⑨
V.IN ⑧
V.GND ⑦
TO SD.V ⑥
EXT ⑤
I.V OUT ④
GND ③
GND ②
GND ①
TO MAIN (A) PCB

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

MAIN(B) PCB VI130A501B(J4)

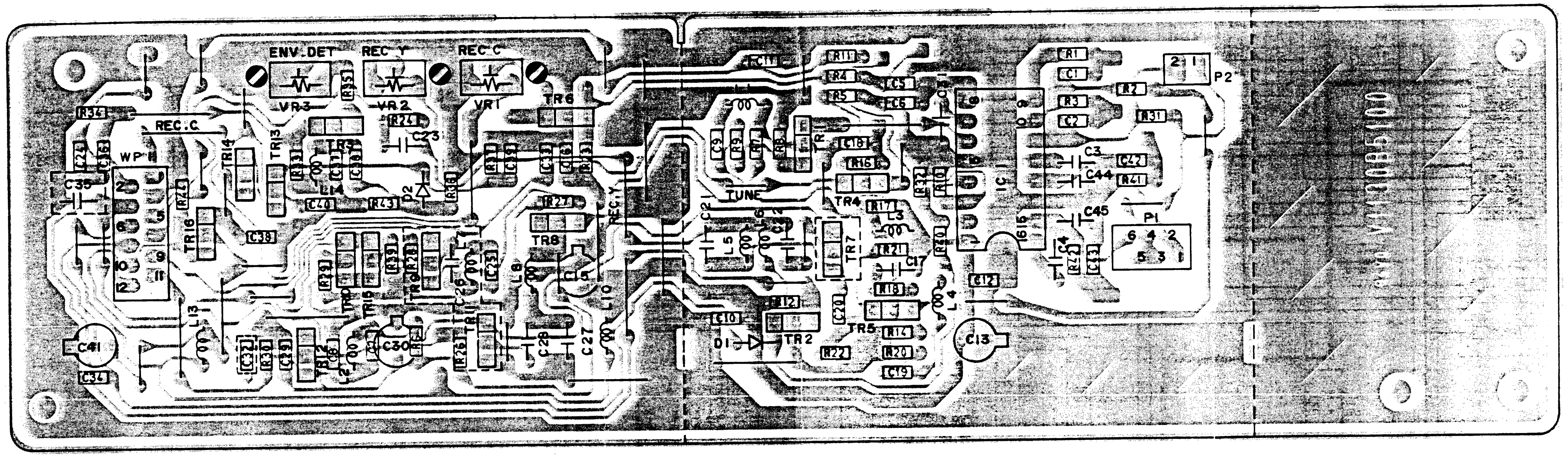

A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
P2 (TEST)
REC.CUR. 1
REC.CUR. 2
TO VIDEO HEAD BLOCK
P1
1 NC
2 CH1-PB.
3 CH1-REC.
4 NC
5 CH2-REC.
6 CH2-PB.
IC1 LA7376
Y/C MIX
AGC DET.
AGC
ENV DET.
CUR.AMP
PB ON
REC OFF
REC ON
PB OFF
Vcc 5V
TR1 2SC3330
TR2 2SA1317
TR3 2SC3330
TR4 UN421D
TR5 2SC3330
TR6 2SA1317
TR7 DTC143TS
TR8 2SC3330
TR9 DTC114TS
TR10 UN421D
TR11 DTC144ES
TR12 2SC3330
TR13 2SA1317
TR14 2SA1317
TR15 DTC114TS
TR16 2SC1740S
VR1
REC C-LEVEL
VR2
VR3
ENV.DET
TP1 V.SWP
TP2 PB.ENV.
C5 0.01 (N)/16
R4 3.9K
C6 0.01 (N)/16
R5 2K
C24 0.01 (N)/16
L5 150 (180)
C21 130P
EXCEPT EA, EK, ES (220P)
( ) : EA, EK, ES ONLY
( ) : EA, ES, ONLY
EXCEPT EA, EK, ES
EM, ES ONLY
C35 0.01 (N)/16 EM, ES ONLY
C32 0.01 (N)/16 EXCEPT EA, EK, ES
WP1
REC.C. 1
PB.C. 2
GND 3
NTSC 4
REC.Y 5
IDL.5V 6
V.SWP 7
REC.S.5 8
TUNE 9
ENV.DET. 10
PB.Y 11
SEC.MES 12
TO MAIN (A) PCB 1/3 P401
PRE AMP PCB V1130B5100
22

B (POWER SUPPLY) LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
( ) : REC MODE

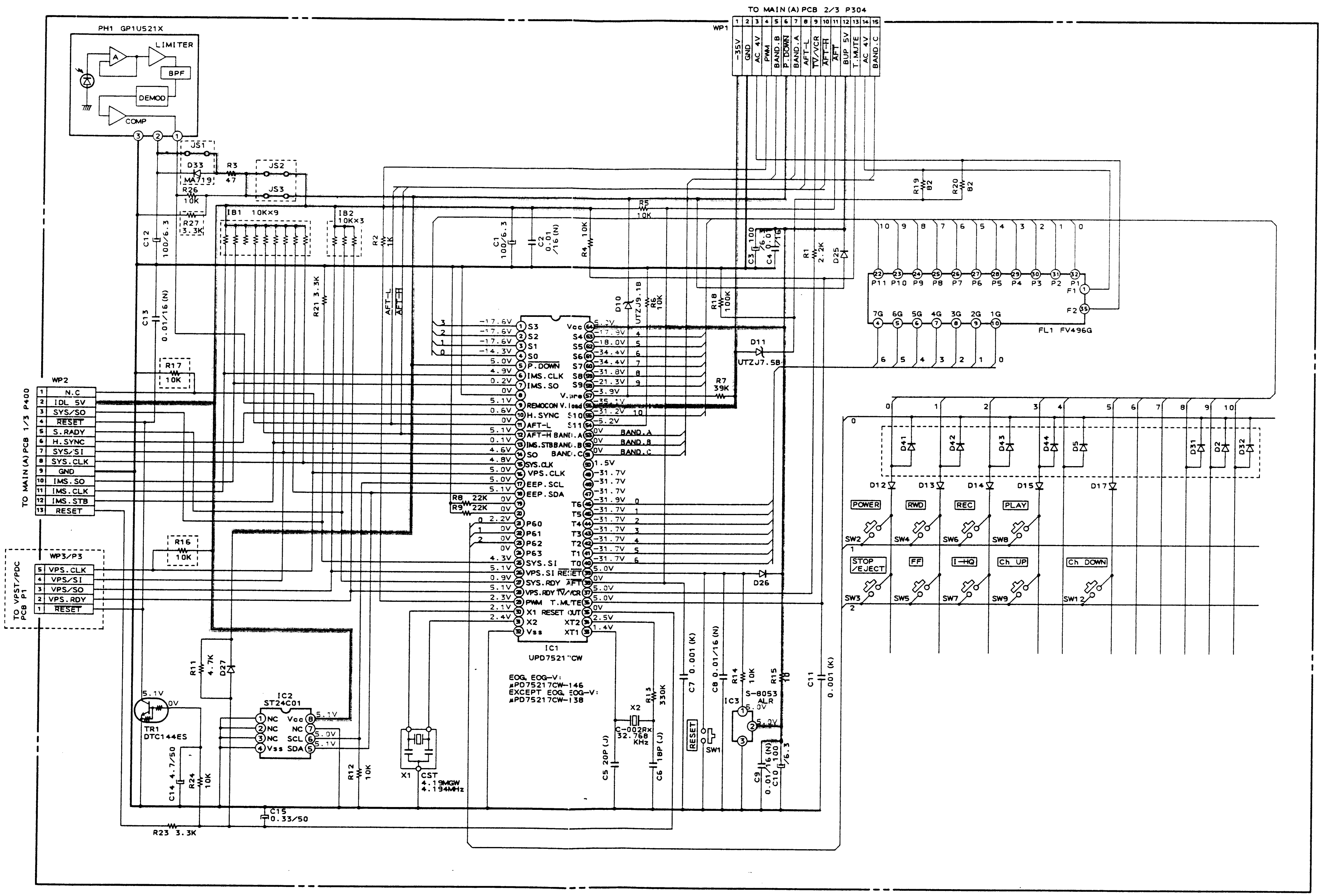
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV(M)
ALL INDUCTORS IN μH(K)

JBX
PRE AMP
SCHEMATIC DIAGRAM
No.18-9 V114609M
A2


ENV.DET
REC.Y
REC.C
VR3
VR2
VR1
TR6
REC.C
WP
TR14
TR13
TR3
TR16
TR8
REC.Y
TUNE
TR4
TR7
TR5
TR2
D1
D2
IC
P1
P2
C41
C34
C13
C30
L5
L3
L4
L13

PRE AMP PCB V1130B5100

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.


TO MAIN (A) PCB 2/3 P304
WP1
-35V
GND
AC 4V
PW4
BAND.B
P.DOWN
BAND.A
AFT-L
TV/VCR
AFT-H
AFT
BUP 5V
T.MUTE
AC 4V
BAND.C
PH1 GP1U521X
LIMITER
BPF
DEMOD
COMP
JS1
JS2
JS3
D33 MA719
R3 47
R26 10K
R27 3.3K
IB1 10K×9
IB2 10K×3
C12 100/6.3
C13 0.01/16 (N)
R21 3.3K
R2 1K
C1 100/6.3
C2 0.01/16
R4 10K
R5 10K
C3 100/6.3
C4 0.01/16
R1 2.2K
D25
D10 UTZJ9.1B
R6 10K
R18 100K
D11 UTZJ7.5B
R7 39K
R19 82
R20 82
FL1 FV496G
P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1
F1
F2
7G 6G 5G 4G 3G 2G 1G
WP2
TO MAIN (A) PCB 1/3 P400
N.C
IDL 5V
SYS/SO
RESET
S.RADY
H.SYNC
SYS/SI
SYS.CLK
GND
IMS.SO
IMS.CLK
IMS.STB
RESET
R17 10K
R16 10K
WP3/P3
TO VPST/PDC PCB P1
VPS.CLK
VPS/SI
VPS/SO
VPS.RDY
RESET
R8 22K
R9 22K
IC1 UPD7521□CW
EOG, EOG-V:
μPD75217CW-146
EXCEPT EOG, EOG-V:
μPD75217CW-138
S3 S2 S1 S0 P.DOWN IMS.CLK IMS.SO Vss REMOCON H.SYNC AFT-L AFT-H IMS.STB SO SYS.CLK VPS.CLK EEP.SCL EEP.SDA P60 P61 P62 P63 SYS.SI VPS.SI SYS.RDY VPS.RDY PWM X1 X2 Vss
Vcc S4 S5 S6 S7 S8 S9 S10 S11 BAND.A BAND.B BAND.C T6 T5 T4 T3 T2 T1 T0 RESET AFT TV/VCR T.MUTE RESET OUT XT2 XT1
R11 4.7K
D27
IC2 ST24C01
NC NC NC Vss Vcc NC SCL SDA
TR1 DTC144ES
C14 4.7/50
R24 10K
R12 10K
C15 0.33/50
R23 3.3K
X1 CST 4.19MGW 4.194MHz
C5 20P (J)
C6 18P (J)
R13 330K
X2 C-002RX 32.768 KHz
C7 0.001 (K)
C8 0.01/16 (N)
RESET
SW1
R14 10K
IC3 S-8053 ALR
R15 10
C9 0.01/16 (N)
C10 100/6.3
C11 0.001 (K)
D26
D41 D42 D43 D44 D5 D31 D2 D32
D12 D13 D14 D15 D17
POWER
RWD
REC
PLAY
STOP /EJECT
FF
I-HQ
Ch UP
Ch DOWN
SW2 SW4 SW6 SW8 SW3 SW5 SW7 SW9 SW12

OPREATION (A) PCB V1146B5100

	E A	EDG	E K	E M	E O	EOG	EOG-V	EOH	EDI	E S	S	SEG	S K	JFX-L (PAL)	JFX-L (SECAM)
D2					○	○	○	○							
D5				○						○					
D31														○	
D32							○	○*							
D33						○	○								
D41		○		○		○	○					○			
D42			○	○						○			○		
D43	○	○								○					
D44					○				○						○
JS1	○	○	○	○	○			○	○	○	○	○	○		
JS2	○	○	○	○	○			○	○	○	○	○	○		
JS3						○	○								
R16	○	○	○	○	○	○	○	○	○	○					
R17											○	○	○		
R27						○	○								
P 3					○			○							
WP3						○	○								

*: EXCEPT F265, F275, F455

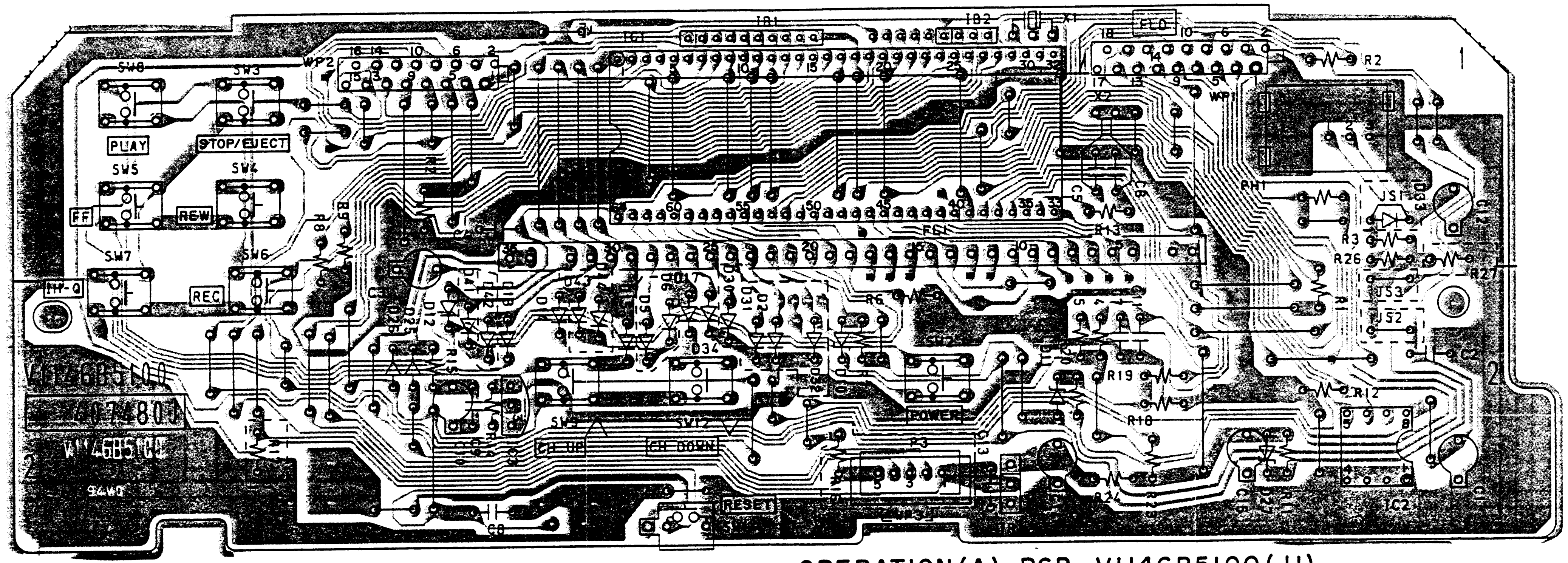
━━ B (POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50WV (M)
ALL DIODES ARE 1SS131T

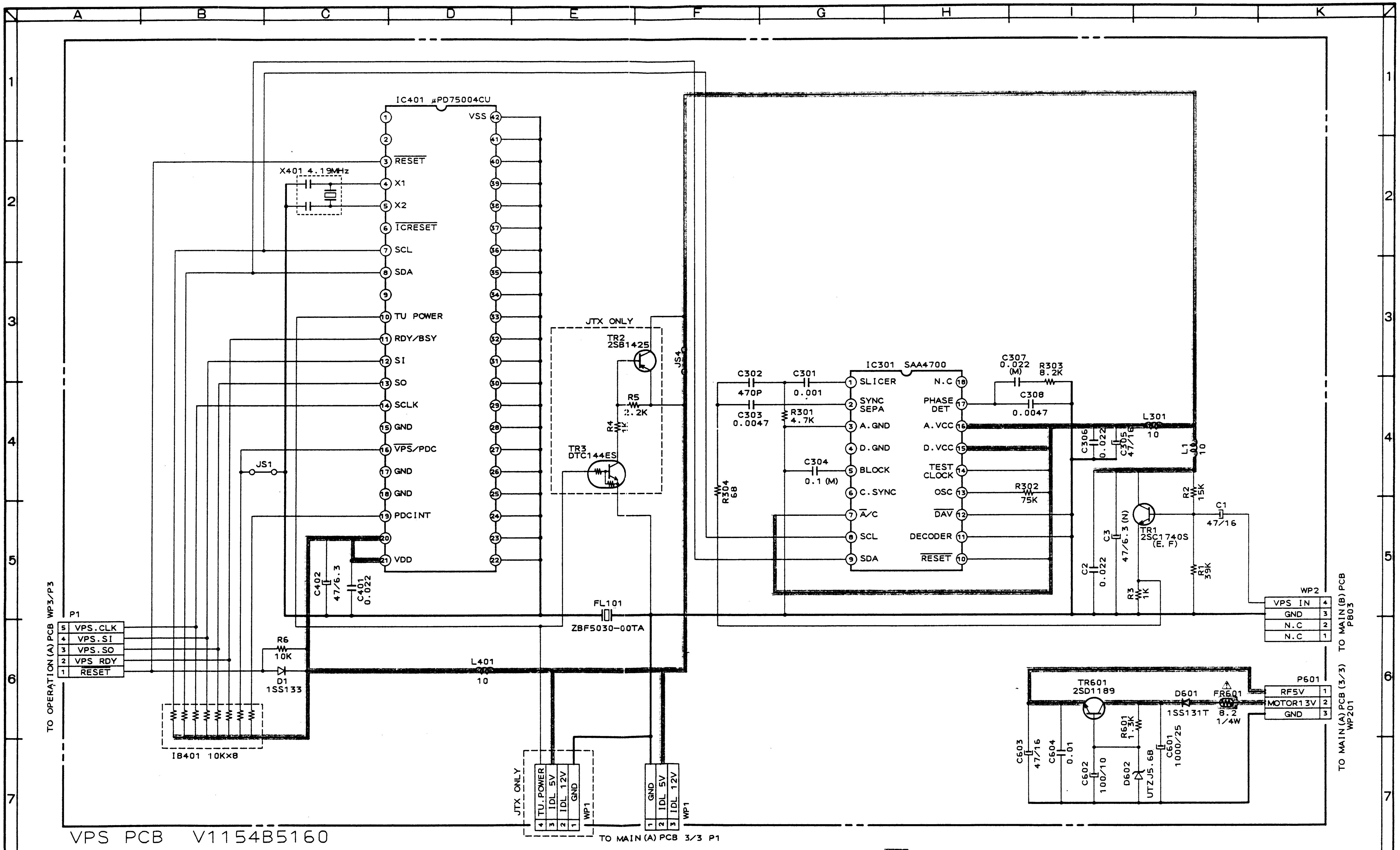
JBX
OPERATION (A)
SCHEMATIC DIAGRAM

No.18-10 V114610M
A1


SW8
SW3
PLAY
STOP/EJECT
SW5
SW4
FF
REW
SW7
SW6
REC
WP2
IC1
IB1
IB2
X1
FLD
FL1
R2
PH1
R3
R26
R27
JS1
JS2
JS3
R13
R19
R18
R12
IC2
C2
C5
C6
C8
D34
R6
SW9
SW12
CH UP
CH DOWN
POWER
RESET
V1146B5100
V1146B5100

OPERATION(A) PCB V1146B5100(J1)

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.


A B C D E F G H I J K
1 2 3 4 5 6 7 8
IC401 μPD75004CU
1
2
3 RESET
4 X1
5 X2
6 ICRESET
7 SCL
8 SDA
9
10 TU POWER
11 RDY/BSY
12 SI
13 SO
14 SCLK
15 GND
16 VPS/PDC
17 GND
18 GND
19 PDCINT
20
21 VDD
VSS 42
X401 4.19MHz
JS1
C402 47/6.3
C401 0.022
R6 10K
D1 1SS133
IB401 10K×8
P1
5 VPS.CLK
4 VPS.SI
3 VPS.SO
2 VPS RDY
1 RESET
TO OPERATION (A) PCB WP3/P3
JTX ONLY
TR2 2SB1425
R5 2.2K
R4 1K
TR3 DTC144ES
JS4
FL101
ZBF5030-00TA
L401 10
JTX ONLY
4 TU.POWER
3 IDL 5V
2 IDL 12V
1 GND
WP1
1 GND
2 IDL 5V
3 IDL 12V
WP1
TO MAIN (A) PCB 3/3 P1
IC301 SAA4700
C302 470P
C301 0.001
C303 0.0047
R301 4.7K
C304 0.1 (M)
R304 68
1 SLICER
2 SYNC SEPA
3 A.GND
4 D.GND
5 BLOCK
6 C.SYNC
7 A/C
8 SCL
9 SDA
N.C 18
PHASE DET 17
A.VCC 16
D.VCC 15
TEST CLOCK 14
OSC 13
DAV 12
DECODER 11
RESET 10
C307 0.022 (M)
R303 8.2K
C308 0.0047
R302 75K
L301 10
L1 10
C306 0.022
C305 47/16
C3 47/6.3 (N)
C2 0.022
R3 1K
TR1 2SC1740S (E, F)
R2 15K
R1 39K
C1 47/16
WP2
4 VPS IN
3 GND
2 N.C
1 N.C
TO MAIN (B) PCB P803
TR601 2SD1189
D601 1SS131T
FR601 8.2 1/4W
R601 1.3K
C603 47/16
C604 0.01
C602 100/10
D602 UTZJ5.6B
C601 1000/25
P601
1 RF5V
2 MOTOR13V
3 GND
TO MAIN (A) PCB (3/3) WP201
VPS PCB V1154B5160

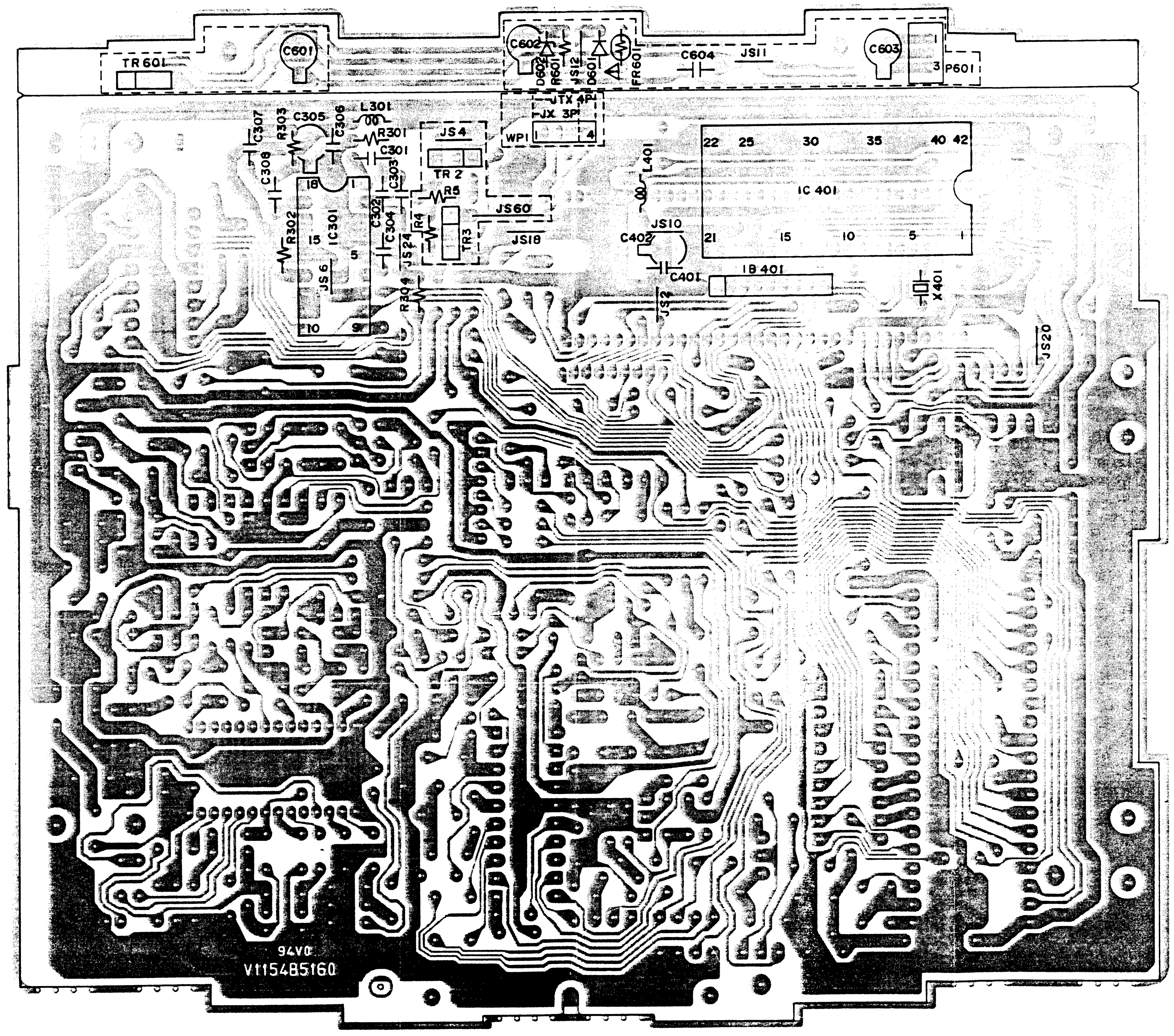
▬ : B (POWER SUPPLY) LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTOR IN μH

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

VPS
SCHEMATIC DIAGRAM
No.18-11 V114611M
A2

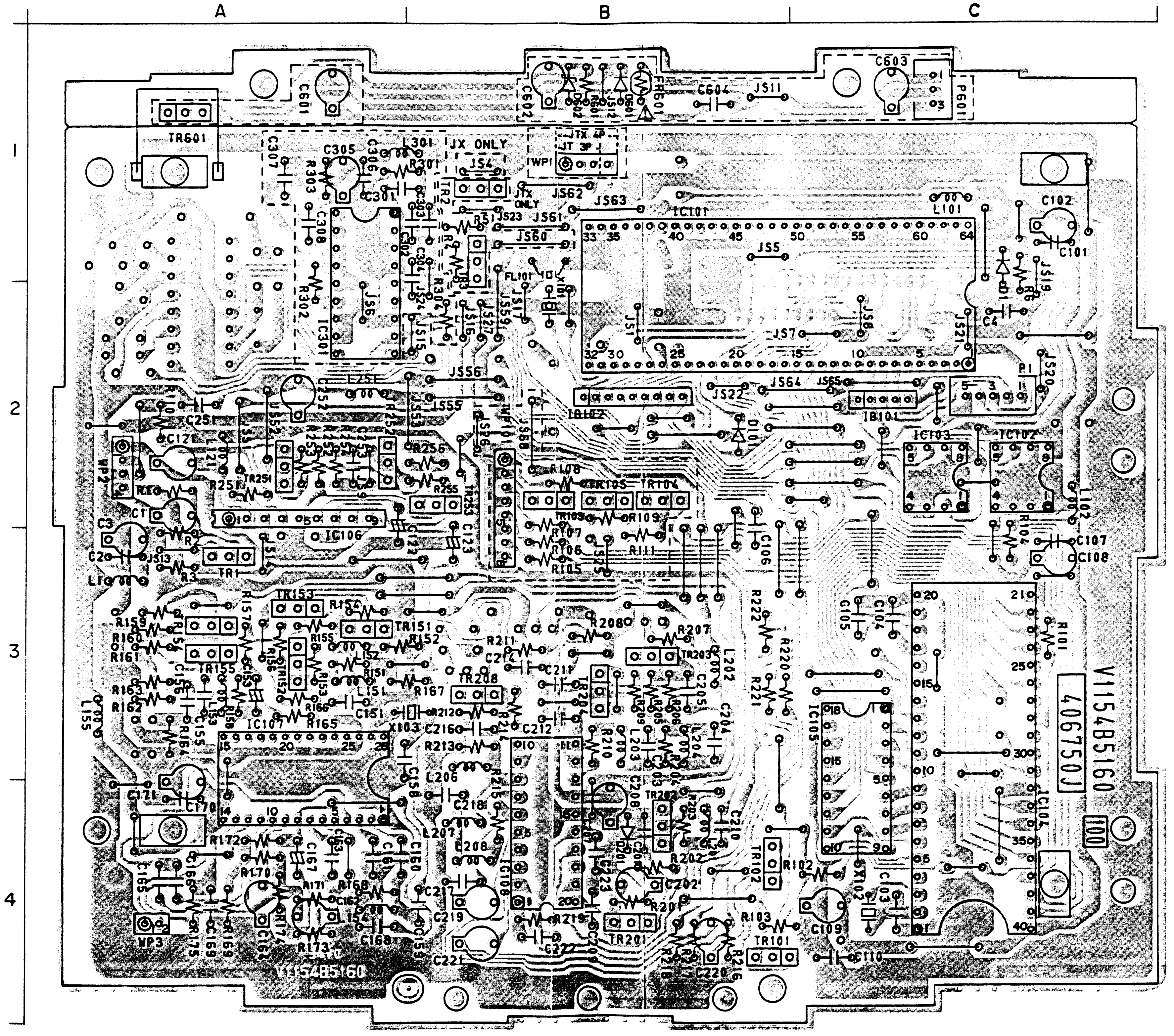

TR601
C601
C602
D602
R601
JS12
D601
FR601
C604
JS11
C603
P601
1
3
JTX 4P
JX 3P
WP1
1
4
C307
R303
C305
C306
L301
R301
C301
C308
JS4
TR 2
R5
C303
C302
C304
R4
TR3
JS60
JS18
R302
IC301
18
1
15
5
10
9
JS6
JS24
R304
L401
JS10
C402
C401
JS12
IB 401
X401
IC 401
22
25
30
35
40
42
21
15
10
5
1
JS20
94V0
V1154B5160

VPS PCB V1154B5160

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.



VPST / PDC PCB V1154B5160

PRINCIPAL PARTS LOCATION

ICS

IC101	B,C1,2
IC102	C2
IC103	C2
IC104	C3,4
IC105	C3,4
IC106	A2
IC107	A3,4
IC108	B3,4
IC301	A1,2

CONNECTORS & WIRES

WP1	B1
WP2	A2
WP3	A4
P1	C2
P601	C1

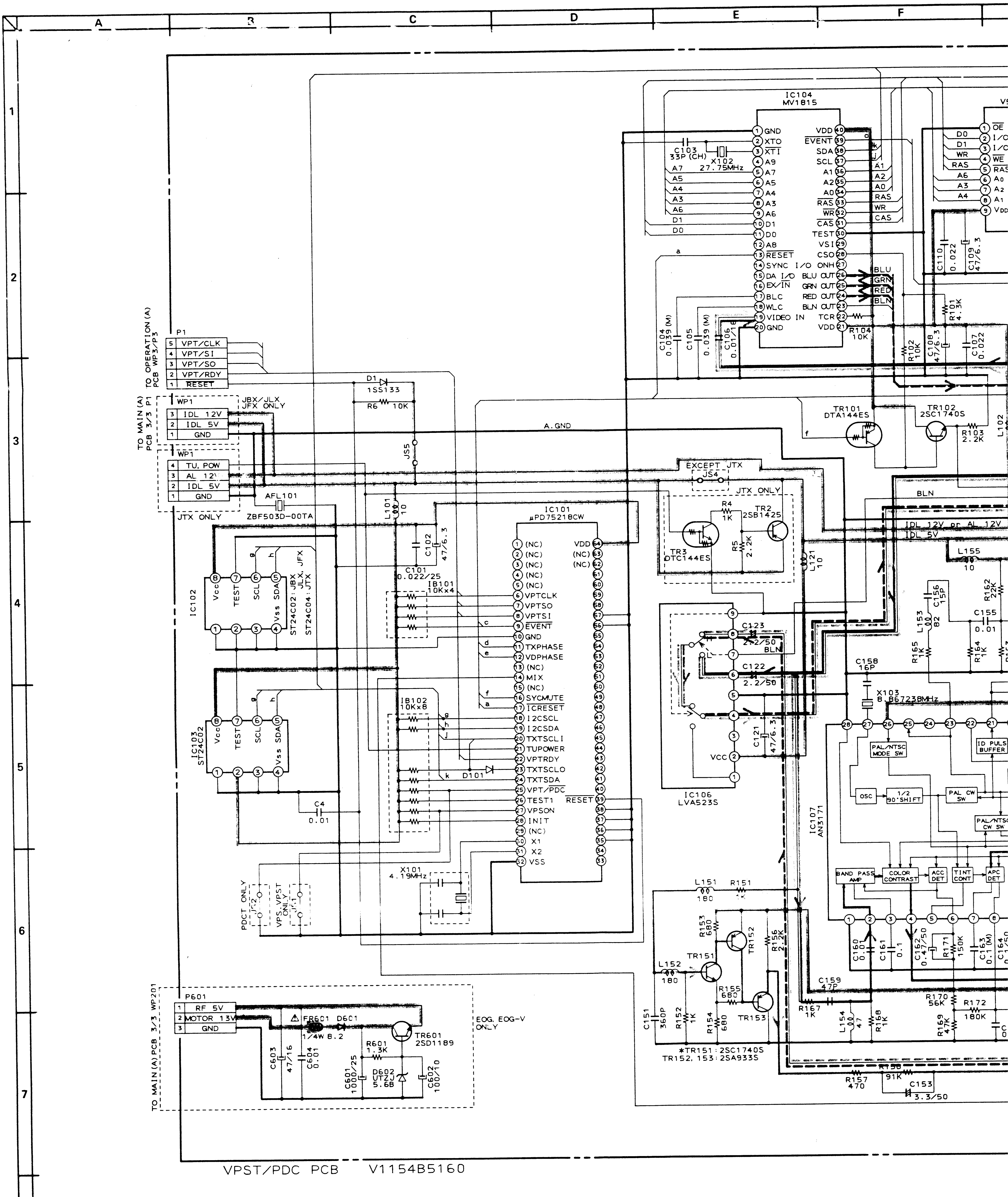
TRANSISTORS

TR1	A3
TR101	B4
TR102	B4
TR151	A3
TR152	A3
TR153	A3
TR154	A3
TR155	A3
TR201	B4
TR202	B4
TR203	B3
TR204	B3
TR208	B3
TR251	A2
TR252	A2
TR253	B2

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.


A
B
C
D
E
F
1
2
3
4
5
6
7
8
IC104
MV1815
GND
XTO
XTI
A9
A7
A5
A4
A3
A6
D1
D0
A8
RESET
SYNC I/O
DA I/O
EX/IN
BLC
WLC
VIDEO IN
GND
VDD
EVENT
SDA
SCL
A1
A2
A0
RAS
WR
CAS
TEST
VSI
CSO
ONH
BLU OUT
GRN OUT
RED OUT
BLN OUT
TCR
VDD
C103
33P (CH)
X102
27.75MHz
C104
0.039 (M)
C105
0.039 (M)
C106
0.01/16
R104
10K
BLU
GRN
RED
BLN
OE
I/O
WE
RAS
VDD
C110
0.022
C109
47/6.3
R101
4.3K
R102
10K
C108
47/6.3
C107
0.022
TR101
DTA144ES
TR102
2SC1740S
R103
2.2K
L102
TO OPERATION (A) PCB WP3/P3
P1
VPT/CLK
VPT/SI
VPT/SO
VPT/RDY
RESET
TO MAIN (A) PCB 3/3 P1
WP1
IDL 12V
IDL 5V
GND
JBX/JLX JFX ONLY
TU, POW
AL 12V
IDL 5V
GND
JTX ONLY
D1
1SS133
R6 10K
JS5
A.GND
AFL101
ZBF503D-00TA
L101
10
C102
47/6.3
C101
0.022/25
IB101
10Kx4
IC101
μPD75218CW
(NC)
VPTCLK
VPTSO
VPTSI
EVENT
GND
TXPHASE
VDPHASE
MIX
SYCMUTE
ICRESET
I2CSCL
I2CSDA
TXTSCLI
TUPOWER
VPTRDY
TXTSCLO
TXTSDA
VPT/PDC
TEST1
VPSON
INIT
X1
X2
VSS
VDD
RESET
IB102
10Kx8
D101
X101
4.19MHz
IC102
ST24C02: JBX JLX, JFX
ST24C04: JTX
Vcc
TEST
SCL
SDA
Vss
IC103
ST24C02
C4
0.01
PDCT ONLY
JF2
VPS, VPST ONLY
JF1
EXCEPT JTX
JS4
JTX ONLY
TR3
DTC144ES
R4
1K
TR2
2SB1425
R5
2.2K
L121
10
C123
2.2/50
C122
2.2/50
C121
47/6.3
VCC
IC106
LVA523S
BLN
IDL 12V or AL 12V
IDL 5V
L155
10
C156
15P
R162
22K
L153
82
C155
0.01
R165
1K
R164
1K
C158
16P
X103
8.867238MHz
PAL/NTSC MODE SW
ID PULS BUFFER
OSC
1/2 90°SHIFT
PAL CW SW
PAL/NTSC CW SW
IC107
AN3171
BAND PASS AMP
COLOR CONTRAST
ACC DET
TINT CONT
APC DET
L151
180
R151
1K
R153
680
TR152
R156
2.2K
TR151
L152
180
R155
680
TR153
C159
47P
C160
0.01
C161
0.1
C162
0.47/50
R171
150K
C163
0.1 (M)
C164
R167
1K
R170
56K
R172
180K
R169
47K
C151
360P
R152
1K
R154
680
L154
47
R168
1K
*TR151: 2SC1740S
TR152, 153: 2SA933S
R157
470
R158
91K
C153
3.3/50
TO MAIN (A) PCB 3/3 WP201
P601
RF 5V
MOTOR 13V
GND
FR601
1/4W 8.2
D601
TR601
2SD1189
R601
1.3K
D602
UTZJ 5.6B
C603
47/16
C604
0.01
C601
1000/25
C602
100/10
EOG, EOG-V ONLY

VPST/PDC PCB V1154B5160

▬▬▬▬ B (POWER SUPPLY) LINE

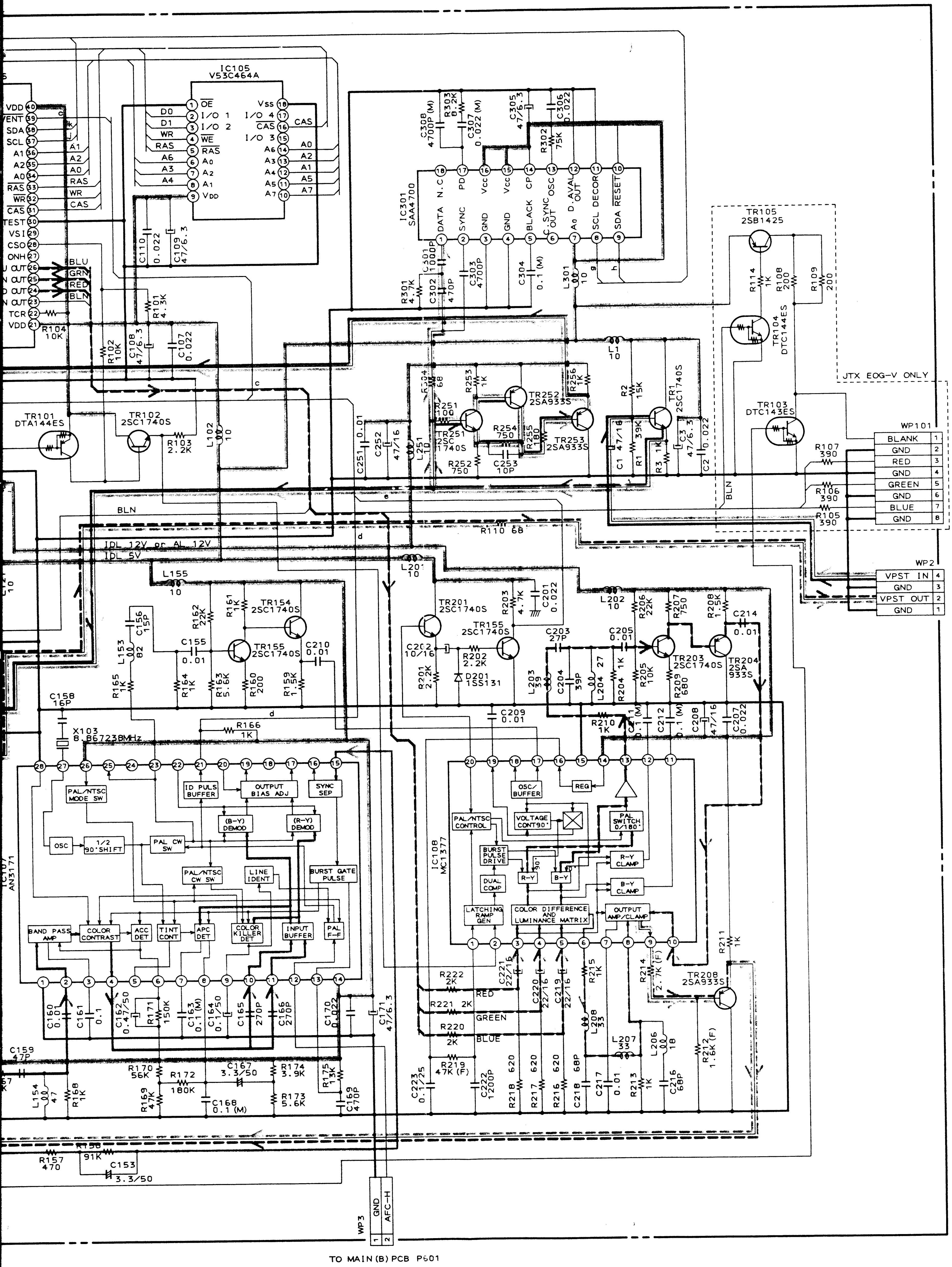
──── Y IN (TUNER) SIGNAL

- - - - Y VPT SIGNAL

━━━━ CHROMA IN (TUNER) SIGNAL

━ ━ ━ CHROMA VPT SIGNAL

NO
UN
AL
AL


IC105 V53C464A
IC301 SAA4700
IC108 MC1377
IC107 AN3171
TR101 DTA144ES
TR102 2SC1740S
TR105 2SB1425
TR104 DTC144ES
TR103 DTC143ES
TR1 2SC1740S
TR251 2SC1740S
TR252 2SA933S
TR253 2SA933S
TR154 2SC1740S
TR155 2SC1740S
TR201 2SC1740S
TR203 2SC1740S
TR204 2SA933S
TR208 2SA933S
X103 8.867238MHz
JTX EOG-V ONLY
WP101
BLANK 1
GND 2
RED 3
GND 4
GREEN 5
GND 6
BLUE 7
GND 8
WP2
VPST IN 4
GND 3
VPST OUT 2
GND 1
TO MAIN(B) PCB P803
IDL 12V or AL 12V
IDL 5V
BLN
WP3
1 GND
2 AFC-H
TO MAIN(B) PCB P601

UPPLY) LINE

R) SIGNAL

NAL

(TUNER) SIGNAL

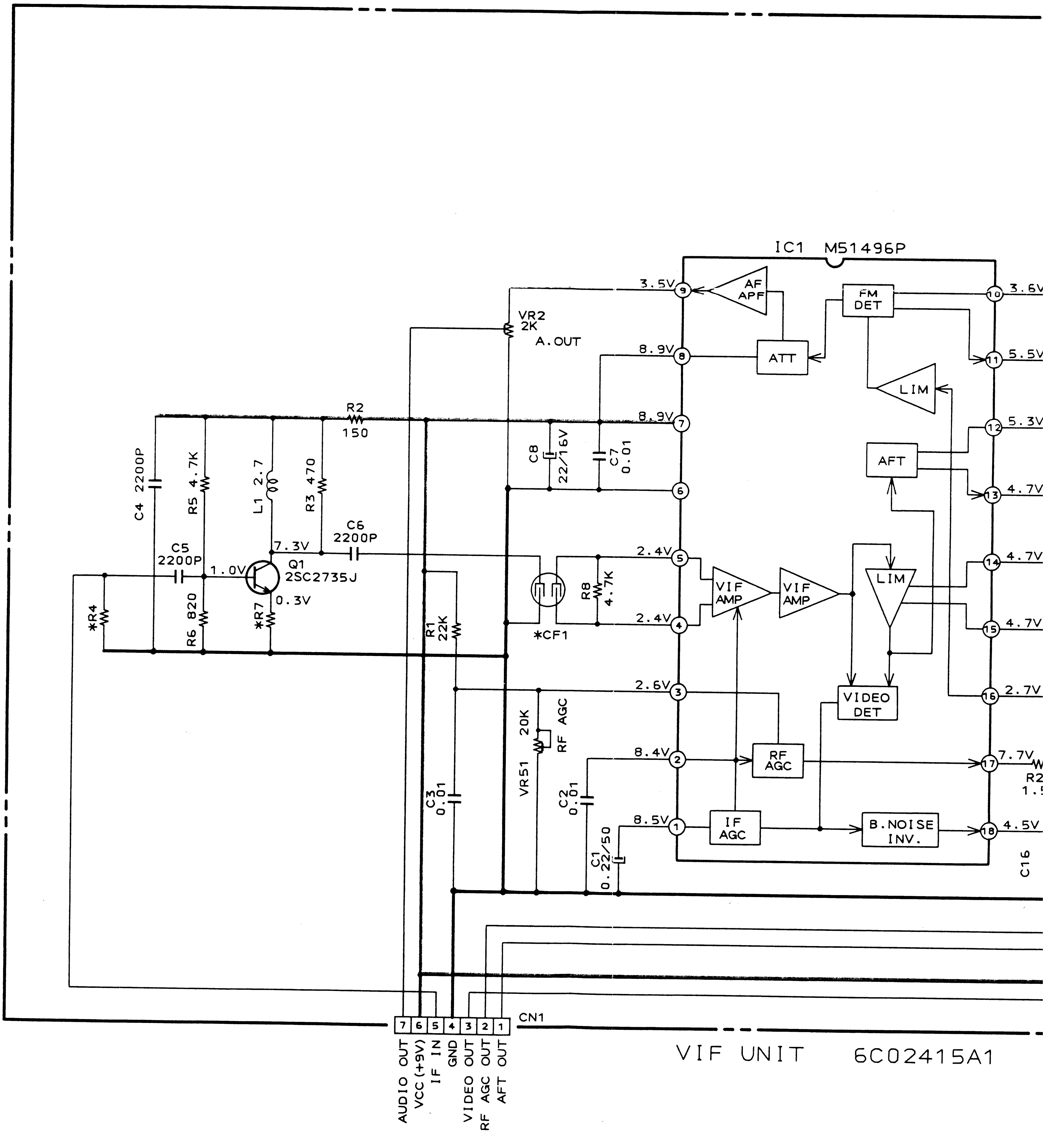
T SIGNAL

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

VPST/PDC
SCHEMATIC DIAGRAM
No.18-12 V114612M
A1

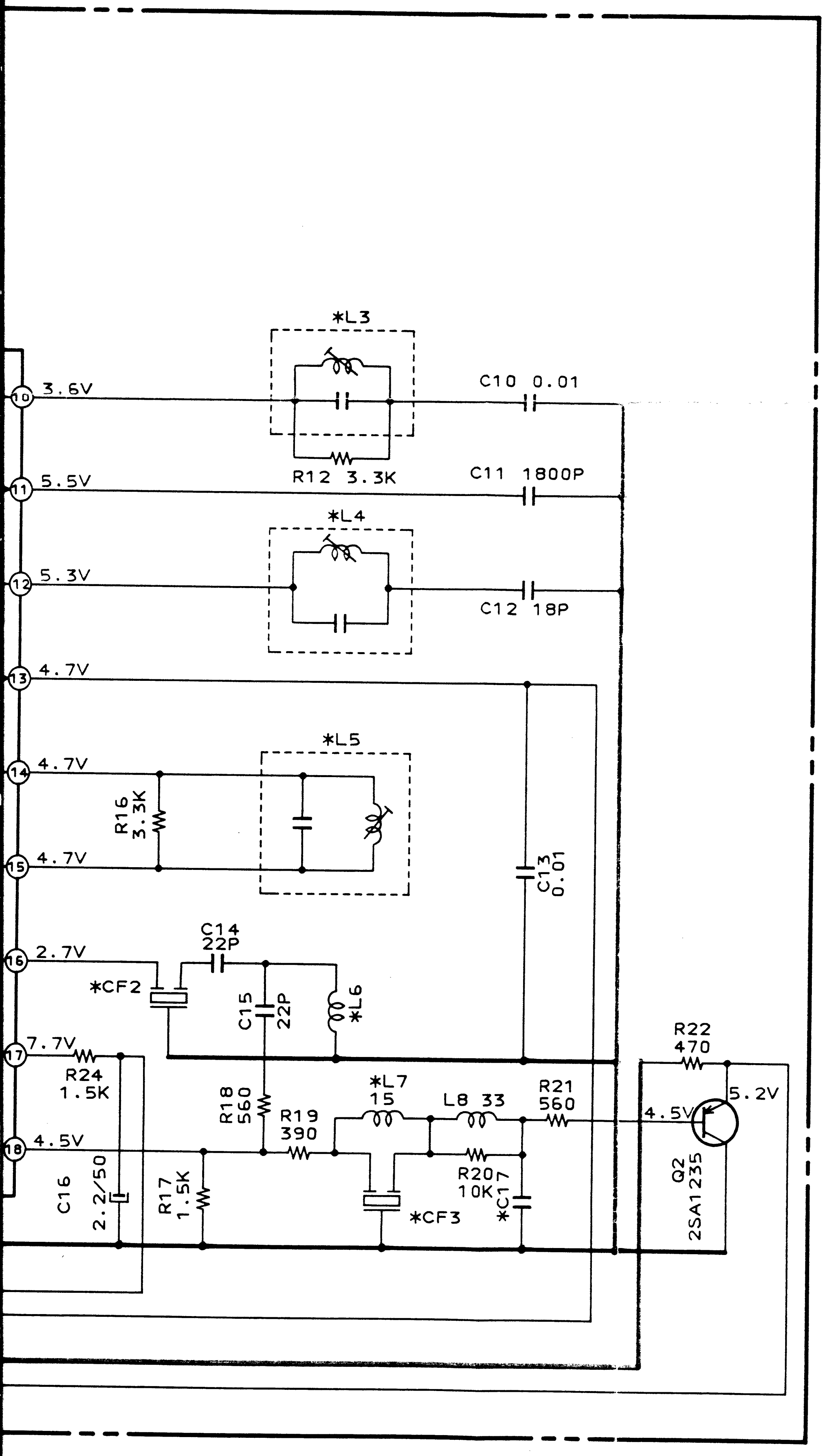

IC1 M51496P
AF APF
FM DET
ATT
LIM
AFT
VIF AMP
VIF AMP
LIM
VIDEO DET
RF AGC
IF AGC
B.NOISE INV.
3.5V
8.9V
8.9V
2.4V
2.4V
2.6V
8.4V
8.5V
3.6V
5.5V
5.3V
4.7V
4.7V
4.7V
2.7V
7.7V
4.5V
C16
VR2 2K A.OUT
R2 150
C8 22/16V
C7 0.01
C4 2200P
R5 4.7K
L1 2.7
R3 470
C6 2200P
C5 2200P
7.3V
1.0V
0.3V
Q1 2SC2735J
*R4
R6 820
*R7
R8 4.7K
*CF1
R1 22K
20K RF AGC
VR51
C3 0.01
C2 0.01
C1 0.22/50
CN1
7 6 5 4 3 2 1
AUDIO OUT
VCC (+9V)
IF IN
GND
VIDEO OUT
RF AGC OUT
AFT OUT

VIF UNIT 6C02415A1

B (POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTORS IN μH (K)



*L3
10 3.6V
C10 0.01
R12 3.3K
11 5.5V
C11 1800P
*L4
12 5.3V
C12 18P
13 4.7V
*L5
14 4.7V
R16 3.3K
15 4.7V
C13 0.01
C14 22P
16 2.7V
*CF2
C15 22P
*L6
17 7.7V
R24 1.5K
R22 470
5.2V
*L7 15
L8 33
R21 560
R18 560
R19 390
18 4.5V
4.5V
R20 10K
*C17
*CF3
C16 2.2/50
R17 1.5K
Q2 2SA1235

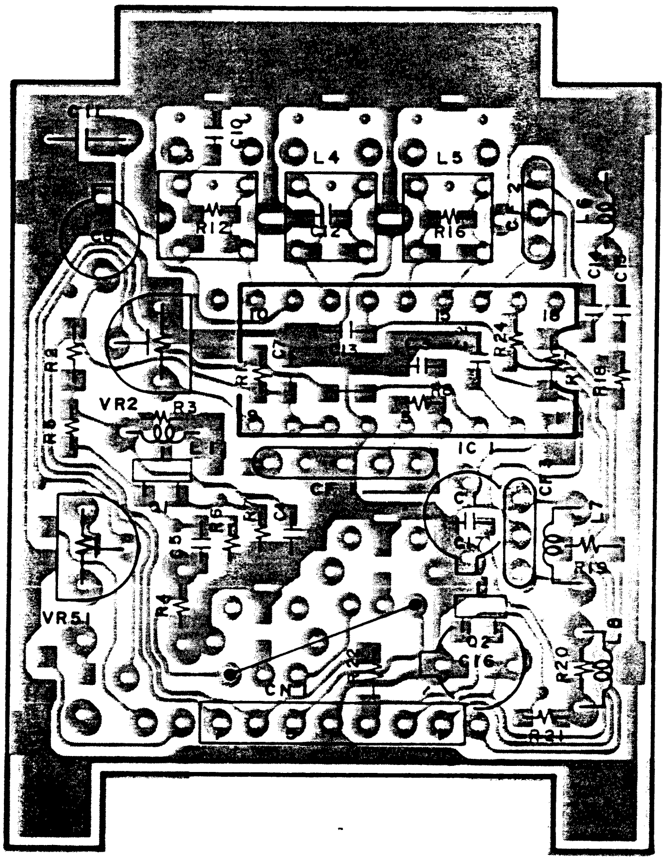
※	EOH	EA	ES
CF1	SAF38.9 MZW70Z	SAF36.9 MZ70Z	SAF38.9 MZ70Z
CF2	SFE 5.5MBF	←	SFE 6.0MBF
CF3	TPS 5.5MW	←	TPS 6.0MB2
L 3	6F16263 A2	←	6F16263 A3
L 4	6F16215 MZ70Z	6F16115 B3	6F16215 A1
L 5	6F16346 A1	6F16113 A1	6F16346 A1
L 6	18μ	←	15μ
L 7	15μ	18μ	15μ
R 4	100	150	100
R 7	22	←	←
R16	——	10K	10K
C17	CH12P	←	CH15P

	EK	EM
CF1	SAF39.5 MZ70Z	SAF38.9 MZ70Z
CF2	SFE6.0MBF	SFE5.5MBF
CF3	TPS6.0MB2	TPS5.5MB2
L 3	6F16263A3	6F16263A2
L 4	6F16215A1	6F16215 MZ70Z
L 5	6F16346A1	6F16346A1
L 6	15μ	18μ
L 7	15μ	18μ
R 4	180	100
R 7	15	22
R16	10K	10K
C17	CH15P	CH12P

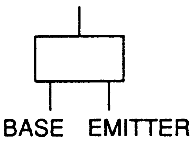
Y)LINE

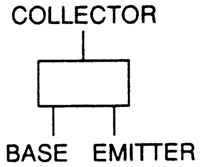
D

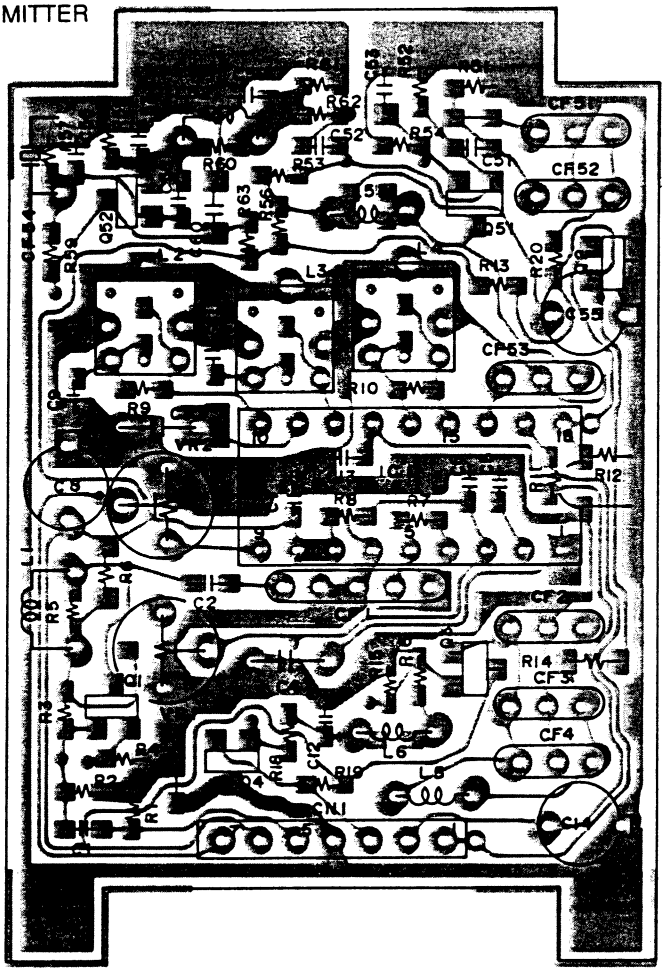
EA/EK/EM/EOH/ES MODELS
VIF UNIT
SCHEMATIC DIAGRAM
No.18-13 V114613M A2


C11
C10
L3
L4
L5
R12
C12
R16
L6
C14
C15
R24
R19
R1
C7
13
10
15
16
VR2
R3
R2
R8
IC1
C8
R6
R7
C9
VR51
R4
C17
L7
R19
Q2
C16
R20
L8
CN1
R21

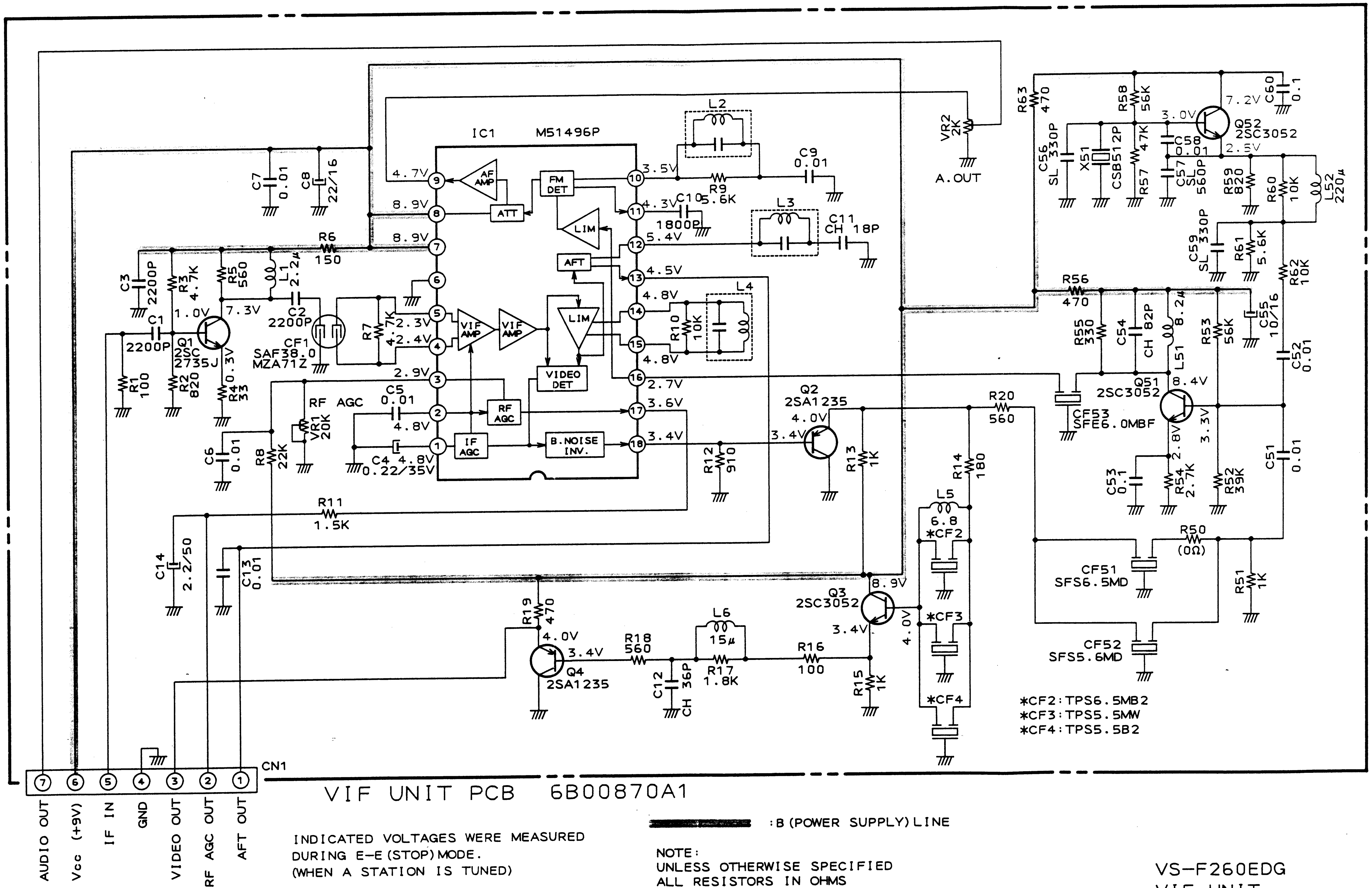
VIF UNIT 6C02415A1
(EA.EK.EM.EOH.ES ONLY)


COLLECTOR
BASE
EMITTER


COLLECTOR
BASE
EMITTER


R62
C53
R52
R61
CF51
C52
R54
C51
R60
R53
CR52
R63
R56
L5
Q52
CF54
R59
Q51
L2
L3
L4
R13
R20
C55
CF53
R10
R9
VR2
10
15
18
IC1
R8
R7
R12
C8
L1
C2
R5
CF2
R14
CF3
CF4
Q1
R3
R4
R2
L6
R18
C12
R19
L8
Q4
CN1
C14

VIF UNIT 6B00870A1
(EDG ONLY)


IC1 M51496P
AF AMP
ATT
FM DET
LIM
AFT
VIF AMP
VIDEO DET
RF AGC
IF AGC
B.NOISE INV.
4.7V
8.9V
2.3V
2.4V
2.9V
4.8V
3.5V
4.3V
5.4V
4.5V
2.7V
3.6V
3.4V
L2
L3
L4
C9 0.01
R9 5.6K
C10 1800P
C11 CH 18P
R10 10K
C7 0.01
C8 22/16
R6 150
C3 2200P
R3 4.7K
R5 560
L1 2.2μ
C2 2200P
C1 2200P
Q1 2SC2735J
1.0V
7.3V
0.3V
R1 100
R2 820
R4 33
CF1 SAF38.0 MZA71Z
R7 4.7K
RF AGC
VR1 20K
C5 0.01
C4 0.22/35V
C6 0.01
R8 22K
R11 1.5K
C14 2.2/50
C13 0.01
R12 910
Q2 2SA1235
4.0V
R13 1K
R19 470
Q4 2SA1235
R18 560
L6 15μ
R17 1.8K
C12 CH 36P
R16 100
R15 1K
Q3 2SC3052
8.9V
R14 180
L5 6.8
*CF2
*CF3
*CF4
R20 560
VR2 2K
A.OUT
R63 470
C56 SL 330P
X51 CSB512P
R58 56K
R57 47K
C58 0.01
C57 SL 560P
Q52 2SC3052
3.0V
7.2V
2.5V
C60 0.1
R59 820
R60 10K
L52 220μ
C59 SL 330P
R61 5.6K
R62 10K
R56 470
R55 330
C54 CH 82P
L51 8.2μ
R53 56K
C55 10/16
C52 0.01
CF53 SFE6.0MBF
Q51 2SC3052
8.4V
2.8V
3.3V
C53 0.1
R54 2.7K
R52 39K
C51 0.01
R50 (0Ω)
CF51 SFS6.5MD
CF52 SFS5.5MD
R51 1K
*CF2: TPS6.5MB2
*CF3: TPS5.5MW
*CF4: TPS5.5B2
CN1
⑦ AUDIO OUT
⑥ Vcc (+9V)
⑤ IF IN
④ GND
③ VIDEO OUT
② RF AGC OUT
① AFT OUT

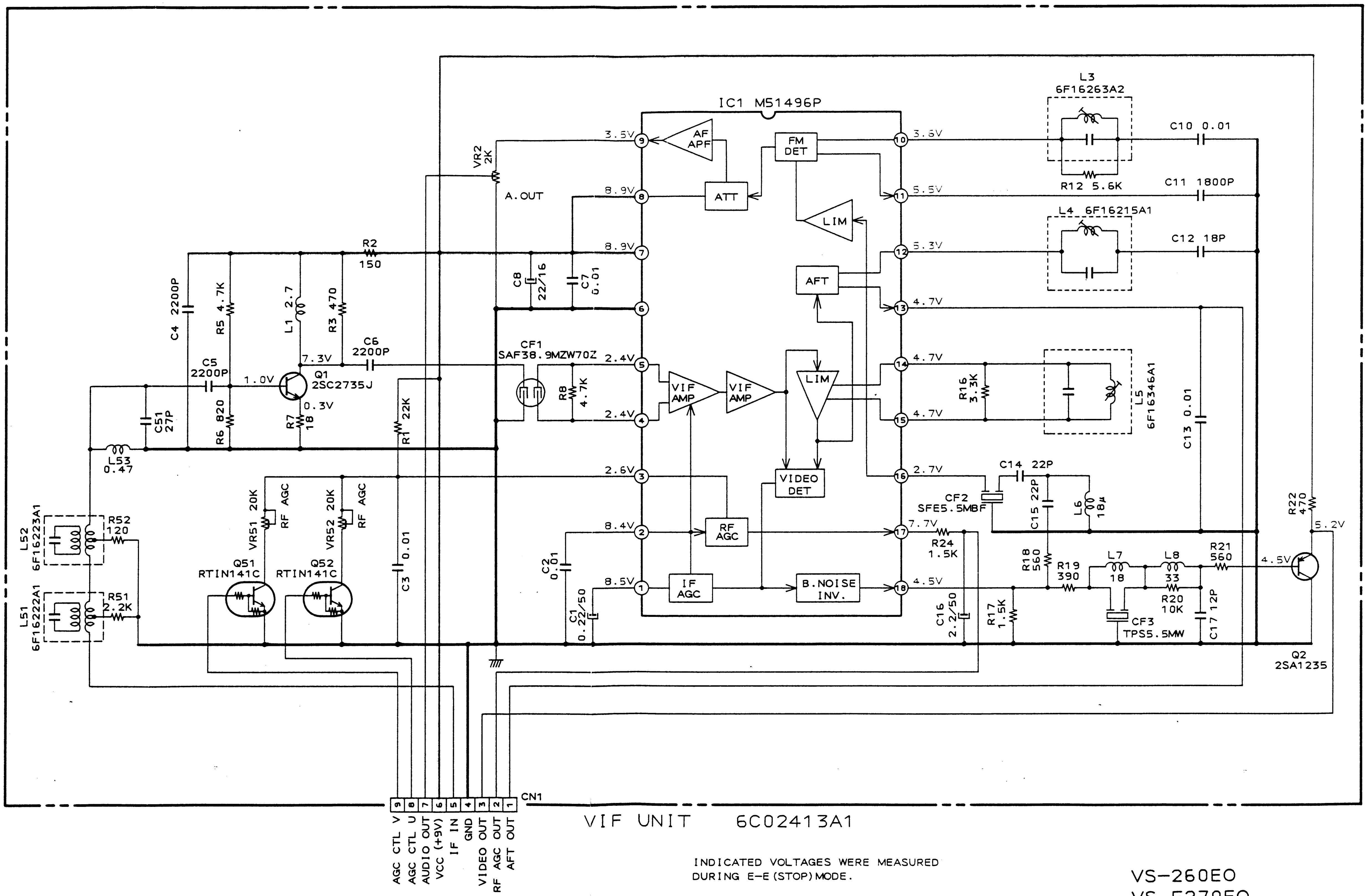
VIF UNIT PCB 6B00870A1

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION IS TUNED)

▬ : B (POWER SUPPLY) LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTOR IN μH (K)

VS-F260EDG
VIF UNIT
SCHEMATIC DIAGRAM
No.18-14 V114614M
A3

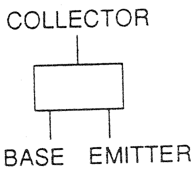

IC1 M51496P
AF APF
FM DET
ATT
LIM
AFT
VIF AMP
VIF AMP
LIM
VIDEO DET
RF AGC
IF AGC
B.NOISE INV.
VR2 2K
A.OUT
R2 150
C8 22/16
C7 0.01
C4 2200P
R5 4.7K
L1 2.7
R3 470
C6 2200P
7.3V
C5 2200P
1.0V
Q1 2SC2735J
0.3V
R6 820
R7 18
C51 27P
L53 0.47
CF1 SAF38.9MZW70Z
R8 4.7K
R1 22K
C3 0.01
VR51 20K RF AGC
VR52 20K RF AGC
Q51 RTIN141C
Q52 RTIN141C
L52 6F16223A1
R52 120
L51 6F16222A1
R51 2.2K
C2 0.01
C1 0.22/50
3.5V
8.9V
8.9V
2.4V
2.4V
2.6V
8.4V
8.5V
3.6V
5.5V
5.3V
4.7V
4.7V
4.7V
2.7V
7.7V
4.5V
L3 6F16263A2
C10 0.01
R12 5.6K
C11 1800P
L4 6F16215A1
C12 18P
R16 3.3K
L5 6F16346A1
C13 0.01
C14 22P
CF2 SFE5.5MBF
C15 22P
L6 18µ
R24 1.5K
R22 470
5.2V
R18 560
R19 390
L7 18
L8 33
R21 560
4.5V
R20 10K
C16 2.2/50
R17 1.5K
CF3 TPS5.5MW
C17 12P
Q2 2SA1235
CN1
9 AGC CTL V
8 AGC CTL U
7 AUDIO OUT
6 VCC (+9V)
5 IF IN
4 GND
3 VIDEO OUT
2 RF AGC OUT
1 AFT OUT
VIF UNIT 6C02413A1

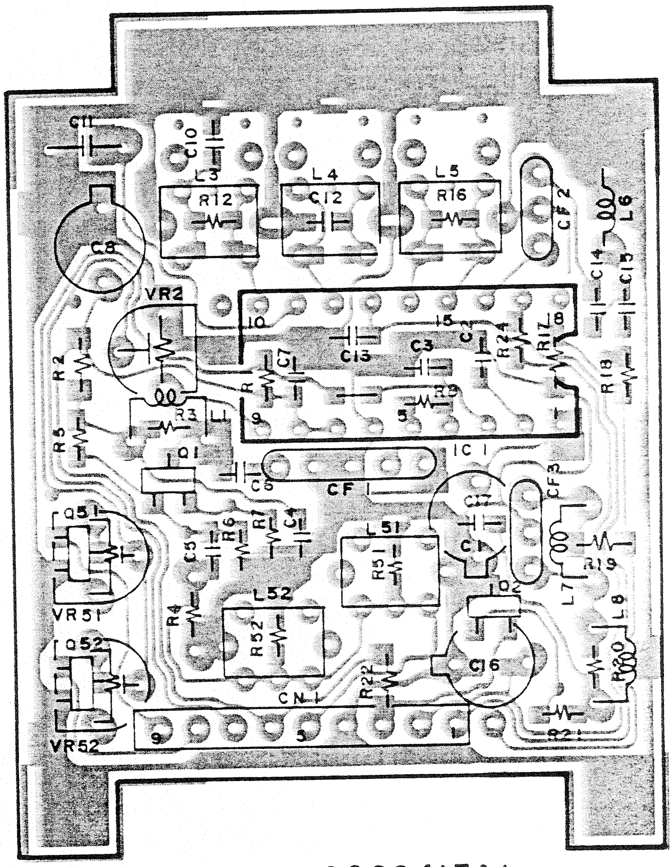
INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.

——— B (POWER SUPPLY) LINE

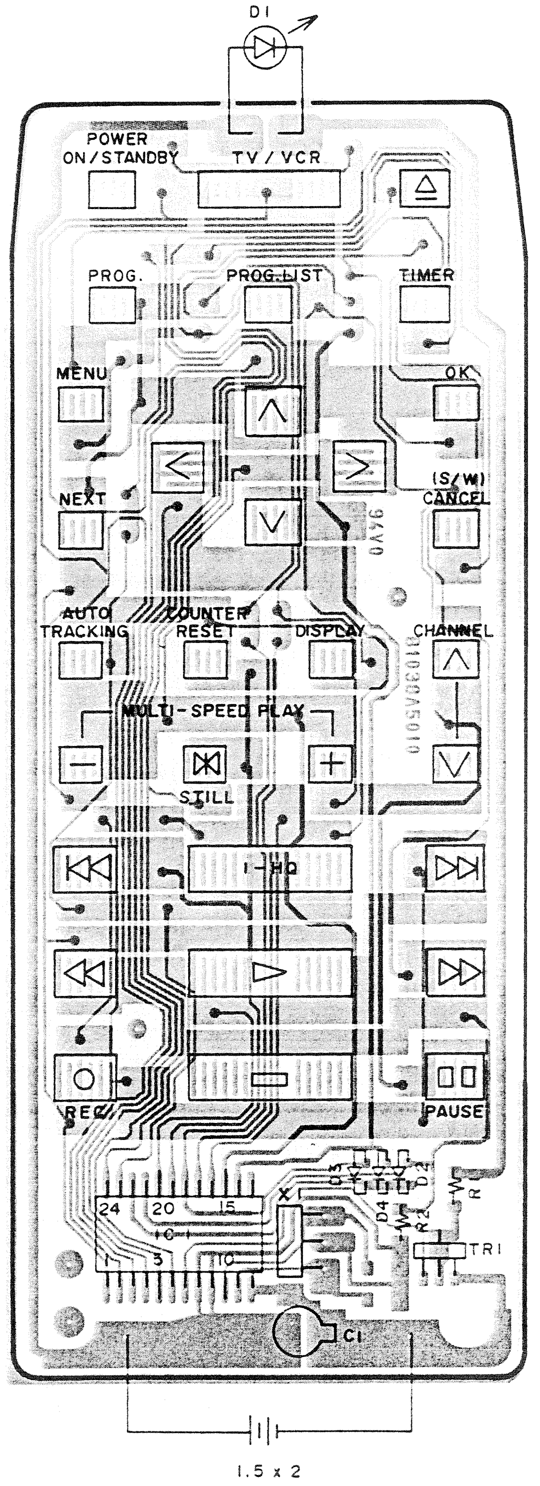
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN µF 50 WV (J)
ALL INDUCTORS IN µH (K)

VS-260EO
VS-F270EO
VS-F280EO/EOG-V
VIF UNIT
SCHEMATIC DIAGRAM
No.18-15 V114615M A2

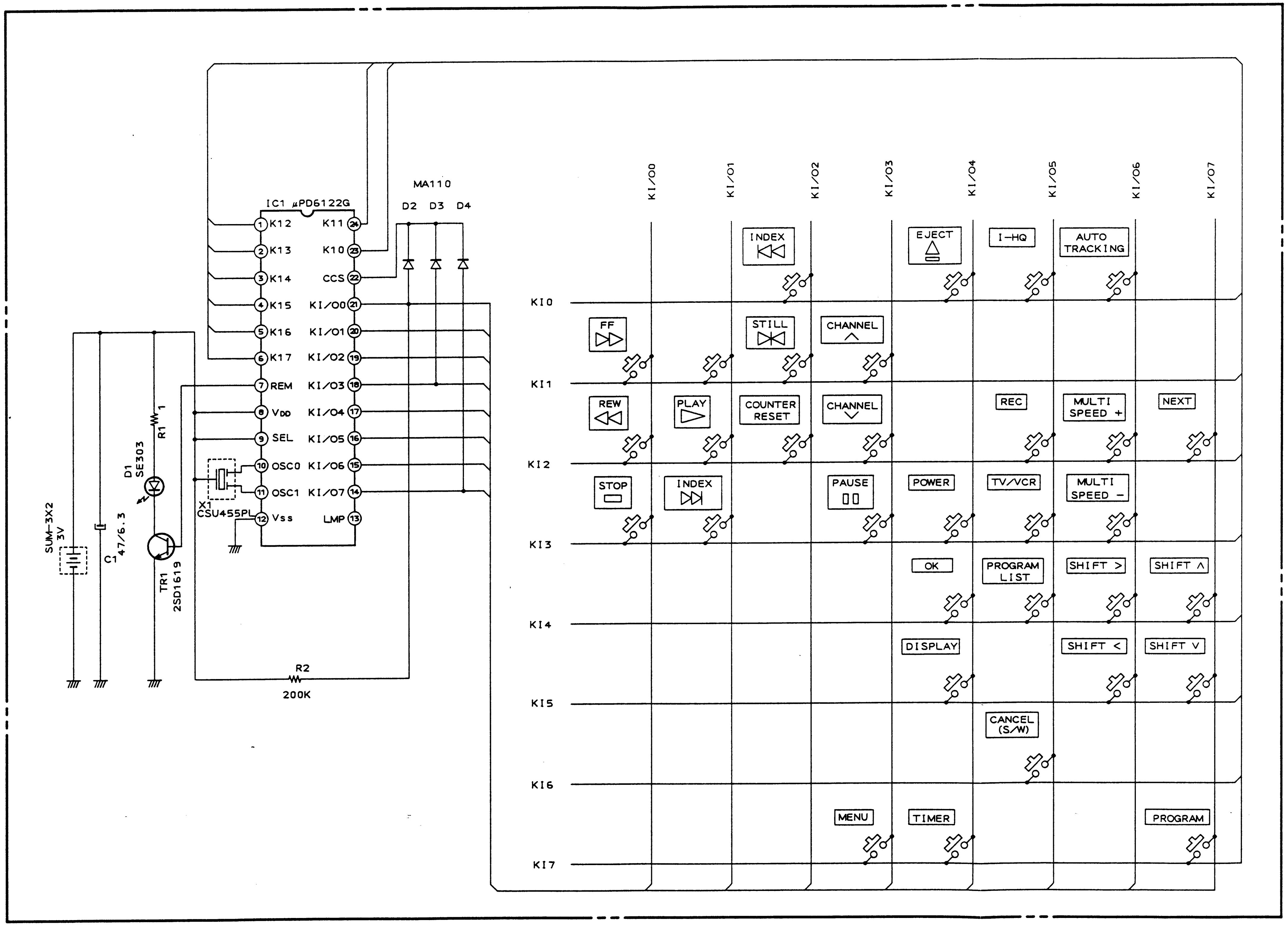

COLLECTOR
BASE
EMITTER


C11
C10
L3
L4
L5
R12
C12
R16
CF2
L6
C8
C14
C15
VR2
10
15
C2
R24
R17
8
C13
C3
R2
C7
R1
R18
R3
L1
9
R9
5
R5
Q1
IC1
C6
CF1
CF3
C17
Q51
R6
R7
C4
L51
C5
C1
R51
R19
L7
VR51
D2
L52
R4
L8
Q52
R52
C16
R20
R22
CN1
VR52
9
3
1
R21

VIF UNIT 6C02413A1
(EO, EOG, EOG-V ONLY)


D1
POWER ON/STANDBY
TV/VCR
PROG.
PROG.LIST
TIMER
MENU
OK
NEXT
(S/W) CANCEL
AUTO TRACKING
COUNTER RESET
DISPLAY
CHANNEL
MULTI-SPEED PLAY
STILL
I-HQ
REC
PAUSE
B1038A5010
24
20
15
IC1
1
5
10
X
D3
D2
D4
R2
R1
TR1
C1
1.5 x 2

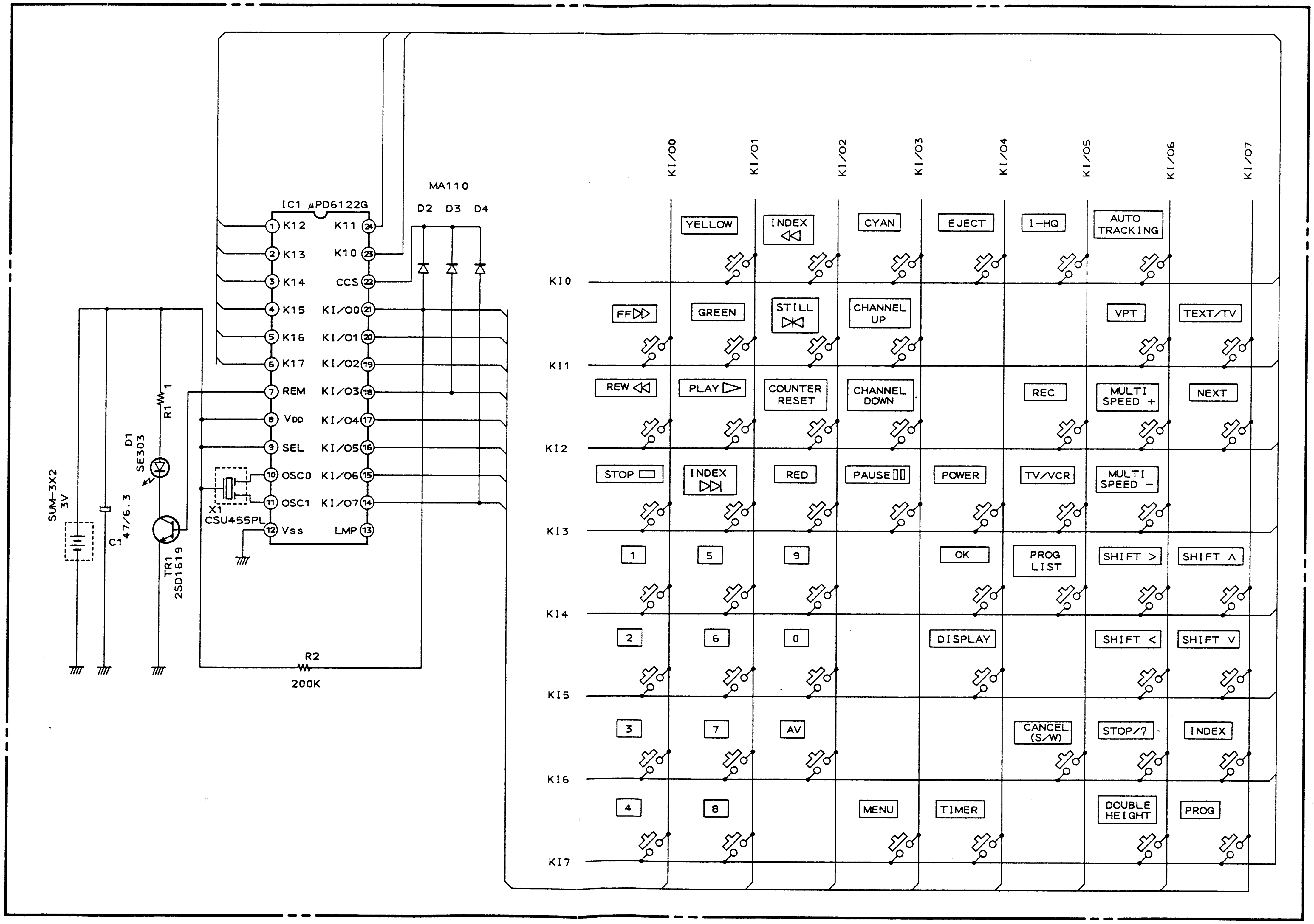
REMO-CON PCB B1038A5010


IC1 µPD6122G
1 K12
2 K13
3 K14
4 K15
5 K16
6 K17
7 REM
8 VDD
9 SEL
10 OSC0
11 OSC1
12 Vss
24 K11
23 K10
22 CCS
21 KI/O0
20 KI/O1
19 KI/O2
18 KI/O3
17 KI/O4
16 KI/O5
15 KI/O6
14 KI/O7
13 LMP
MA110
D2 D3 D4
X1
CSU455PL
R1 1
D1 SE303
TR1 2SD1619
C1 47/6.3
SUM-3X2 3V
R2
200K
KI/O0
KI/O1
KI/O2
KI/O3
KI/O4
KI/O5
KI/O6
KI/O7
KI0
KI1
KI2
KI3
KI4
KI5
KI6
KI7
INDEX
EJECT
I-HQ
AUTO TRACKING
FF
STILL
CHANNEL ∧
REW
PLAY
COUNTER RESET
CHANNEL ∨
REC
MULTI SPEED +
NEXT
STOP
INDEX
PAUSE
POWER
TV/VCR
MULTI SPEED −
OK
PROGRAM LIST
SHIFT >
SHIFT ∧
DISPLAY
SHIFT <
SHIFT ∨
CANCEL (S/W)
MENU
TIMER
PROGRAM

REMO-CON PCB B1038A5010

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W(J)
ALL CAPACITORS IN µF

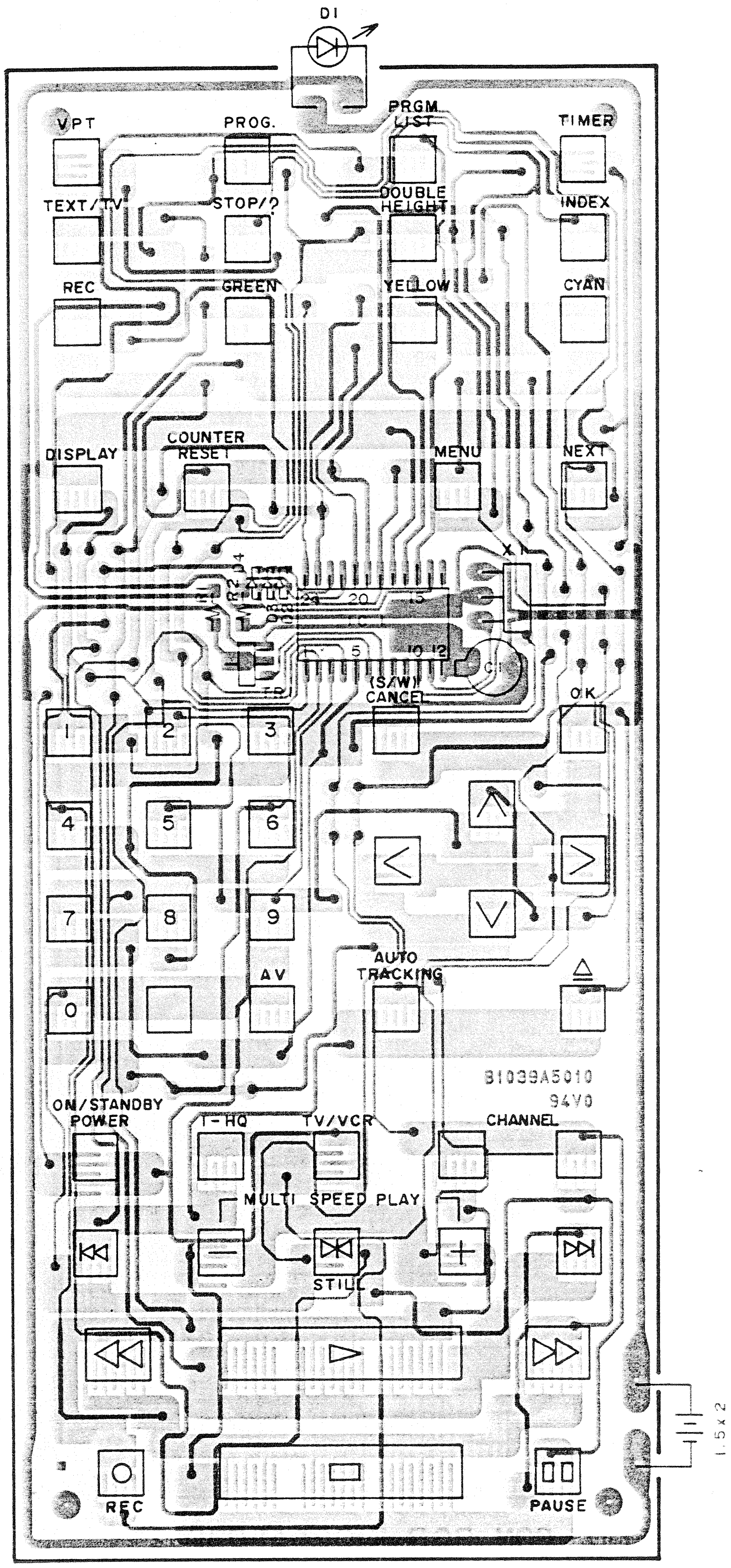
RC-V250E
REMOTE CONTROL UNIT
SCHEMATIC DIAGRAM
No.18-16 B103801M
A2


IC1 µPD6122G
1 K12
2 K13
3 K14
4 K15
5 K16
6 K17
7 REM
8 VDD
9 SEL
10 OSC0
11 OSC1
12 Vss
K11 24
K10 23
CCS 22
KI/O0 21
KI/O1 20
KI/O2 19
KI/O3 18
KI/O4 17
KI/O5 16
KI/O6 15
KI/O7 14
LMP 13
MA110
D2 D3 D4
R1 1
D1 SE303
SUM-3X2 3V
C1 47/6.3
TR1 2SD1619
X1 CSU455PL
R2 200K
KI/O0 KI/O1 KI/O2 KI/O3 KI/O4 KI/O5 KI/O6 KI/O7
KI0 KI1 KI2 KI3 KI4 KI5 KI6 KI7
YELLOW
INDEX ◁◁
CYAN
EJECT
I-HQ
AUTO TRACKING
FF▷▷
GREEN
STILL ▷◁
CHANNEL UP
VPT
TEXT/TV
REW ◁◁
PLAY ▷
COUNTER RESET
CHANNEL DOWN
REC
MULTI SPEED +
NEXT
STOP □
INDEX ▷▷
RED
PAUSE ▯▯
POWER
TV/VCR
MULTI SPEED −
1
5
9
OK
PROG LIST
SHIFT >
SHIFT ∧
2
6
0
DISPLAY
SHIFT <
SHIFT V
3
7
AV
CANCEL (S/W)
STOP/?
INDEX
4
8
MENU
TIMER
DOUBLE HEIGHT
PROG

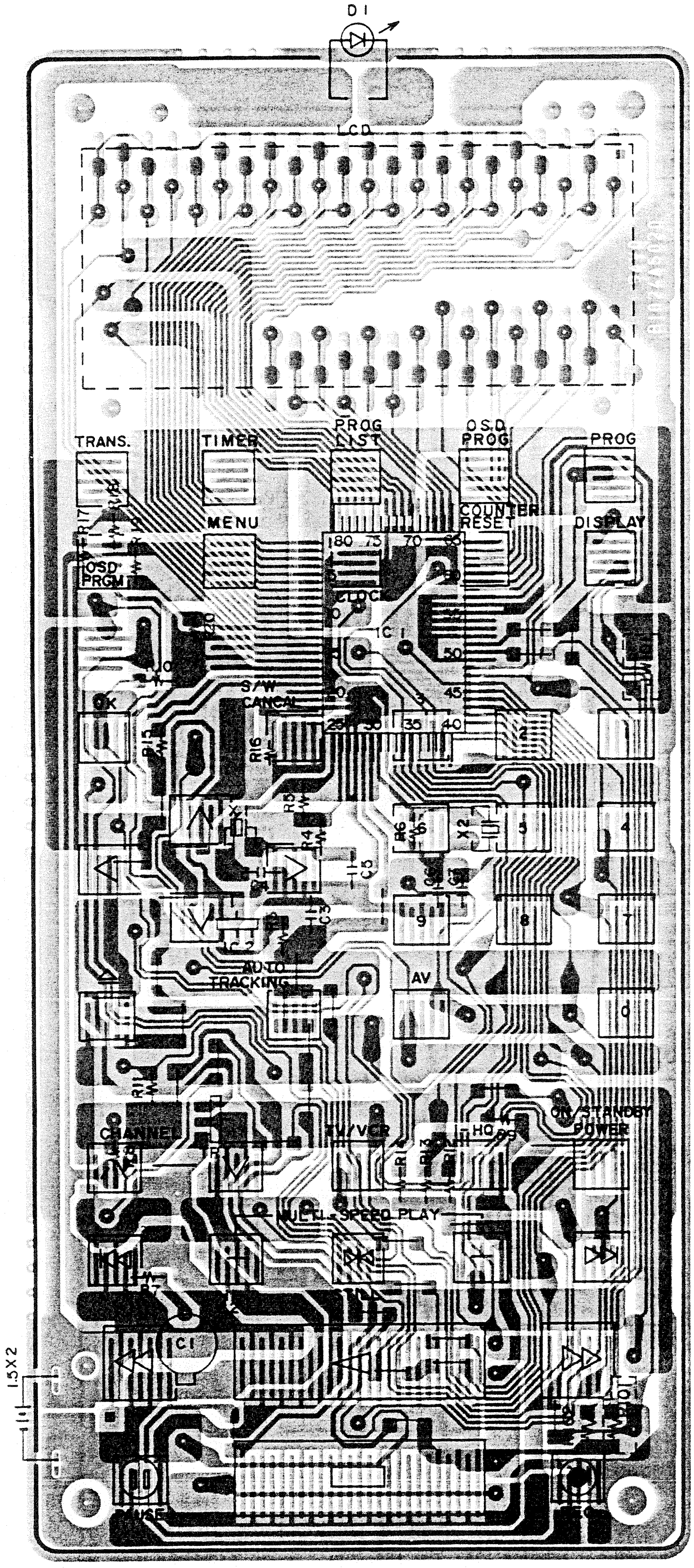
REMO-CON PCB B1039A5010

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W(J)

REMOTE CONTROL DIAGRAM
SCHEMATIC DIAGRAM
No.18-17 B103901M
A2

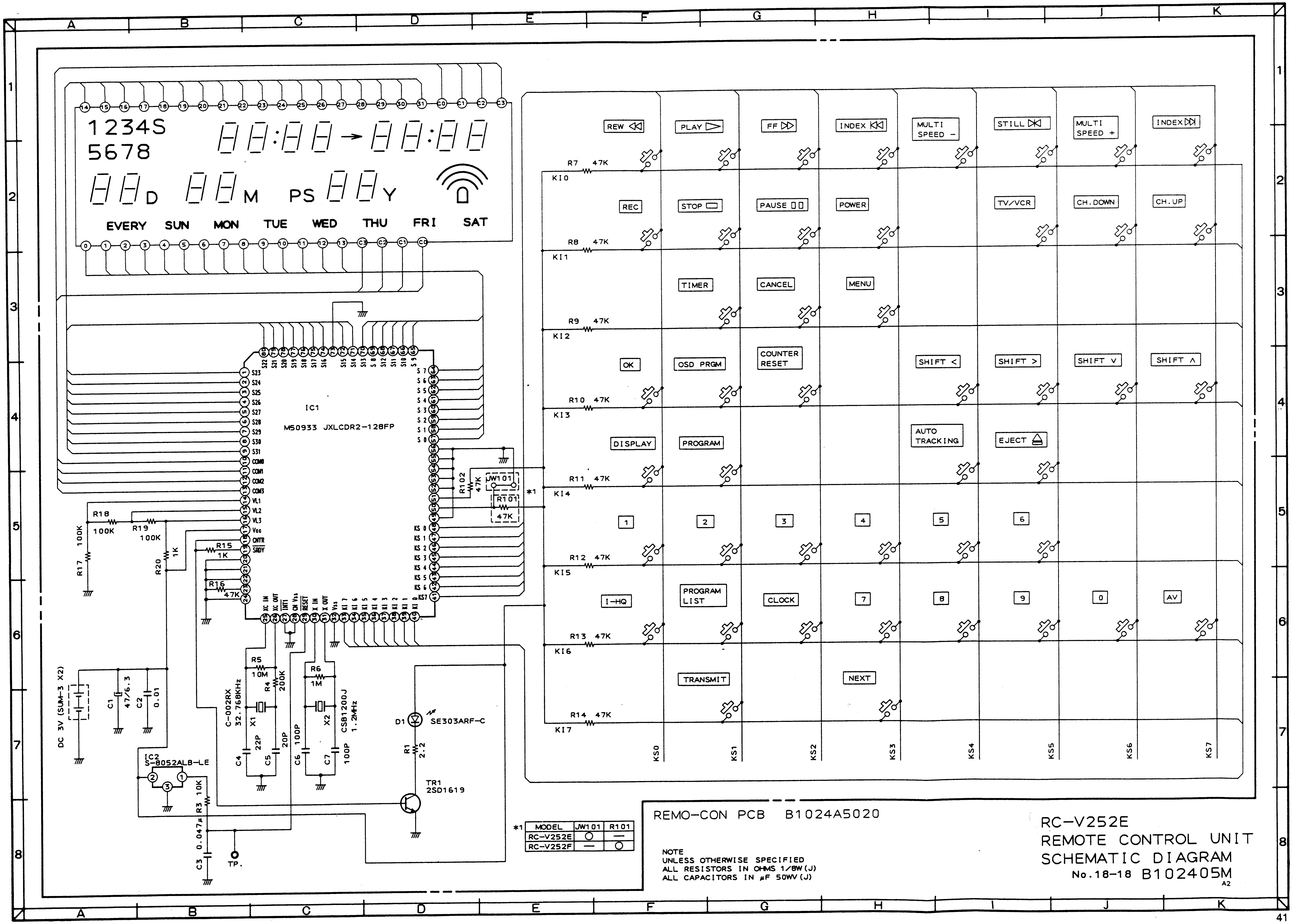

D1
VPT
PROG.
PRGM LIST
TIMER
TEXT/TV
STOP/?
DOUBLE HEIGHT
INDEX
REC
GREEN
YELLOW
CYAN
DISPLAY
COUNTER RESET
MENU
NEXT
X1
24
20
15
5
10
12
C1
TR
(S/W) CANCEL
OK
1
2
3
4
5
6
7
8
9
0
AV
AUTO TRACKING
B1039A5010
94V0
ON/STANDBY POWER
I-HQ
TV/VCR
CHANNEL
MULTI SPEED PLAY
STILL
REC
PAUSE
1.5x2

REMO-CON PCB B1039A5010


D1
LCD
TRANS.
TIMER
PROG LIST
O.S.D PROG
PROG
MENU
COUNTER RESET
DISPLAY
OSD PRGM
CLOCK
IC1
S/W CANCAL
OK
R15
R16
R5
R4
R6
X2
C5
C3
IC2
AUTO TRACKING
AV
5
4
9
8
7
0
R11
CHANNEL
TV/VCR
ON/STANDBY POWER
MULTI-SPEED PLAY
1.5X2
PAUSE

REMO - CON PCB B1024A5020J2

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.


1234S
5678
88:88→88:88
88D 88M PS 88Y
EVERY
SUN
MON
TUE
WED
THU
FRI
SAT
IC1
M50933 JXLCDR2-128FP
S23
S24
S25
S26
S27
S28
S29
S30
S31
COM0
COM1
COM2
COM3
VL1
VL2
VL3
Vcc
CNTR
SRDY
XC IN
XC OUT
INT1
CN Vss
RESET
X IN
X OUT
Vss
KI 7
KI 6
KI 5
KI 4
KI 3
KI 2
KI 1
KI 0
KS 0
KS 1
KS 2
KS 3
KS 4
KS 5
KS 6
KS7
S 7
S 6
S 5
S 4
S 3
S 2
S 1
S 0
R18 100K
R19 100K
R17 100K
R20 1K
R15 1K
R16 47K
R102 47K
JW101
R101 47K
*1
DC 3V (SUM-3 X2)
C1 47/6.3
C2 0.01
IC2 S-8052ALB-LE
R3 10K
C3 0.047μ
TP.
R5 10M
R4 200K
C-002RX 32.768KHz
X1
C4 22P
C5 20P
R6 1M
X2
CSB1200J 1.2MHz
C6 100P
C7 100P
D1 SE303ARF-C
R1 2.2
TR1 2SD1619
R7 47K
KI0
R8 47K
KI1
R9 47K
KI2
R10 47K
KI3
R11 47K
KI4
R12 47K
KI5
R13 47K
KI6
R14 47K
KI7
KS0
KS1
KS2
KS3
KS4
KS5
KS6
KS7
REW ◁◁
PLAY ▷
FF ▷▷
INDEX ◁◁
MULTI SPEED −
STILL ▷|
MULTI SPEED +
INDEX ▷▷
REC
STOP ▭
PAUSE ▯▯
POWER
TV/VCR
CH.DOWN
CH.UP
TIMER
CANCEL
MENU
OK
OSD PRGM
COUNTER RESET
SHIFT <
SHIFT >
SHIFT V
SHIFT Λ
DISPLAY
PROGRAM
AUTO TRACKING
EJECT ⏏
1
2
3
4
5
6
I-HQ
PROGRAM LIST
CLOCK
7
8
9
0
AV
TRANSMIT
NEXT
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8

*1

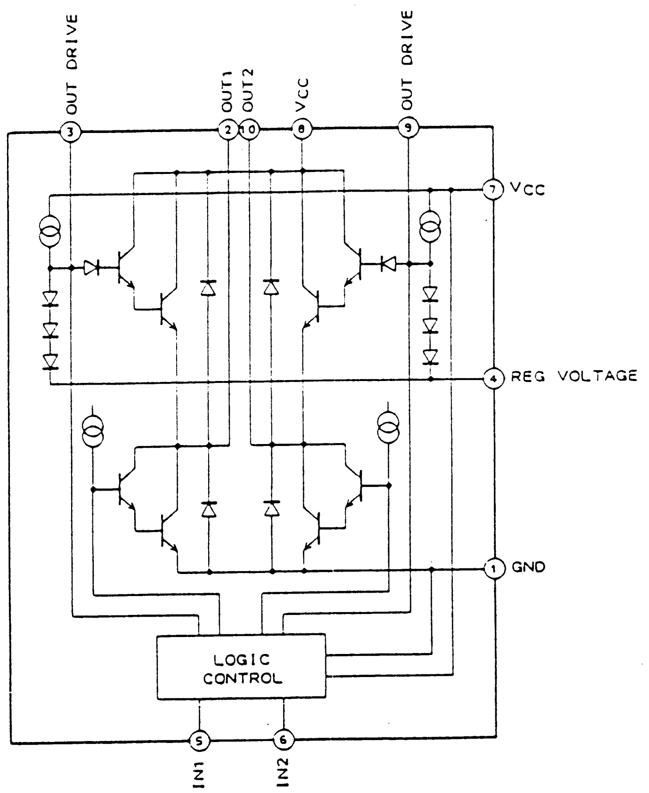
MODEL	JW101	R101
RC-V252E	○	—
RC-V252F	—	○

REMO-CON PCB B1024A5020

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W (J)
ALL CAPACITORS IN μF 50WV (J)

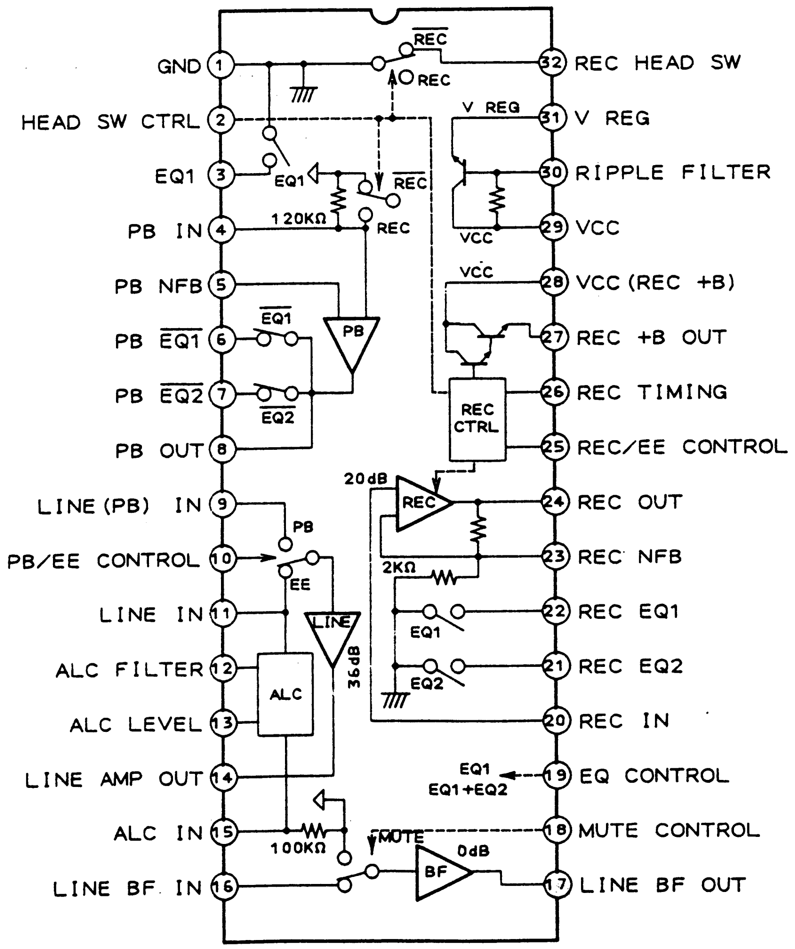
RC-V252E
REMOTE CONTROL UNIT
SCHEMATIC DIAGRAM
No.18-18 B102405M
A2

BA6229 (BI-DIRECTIONAL MOTOR DRIVE)

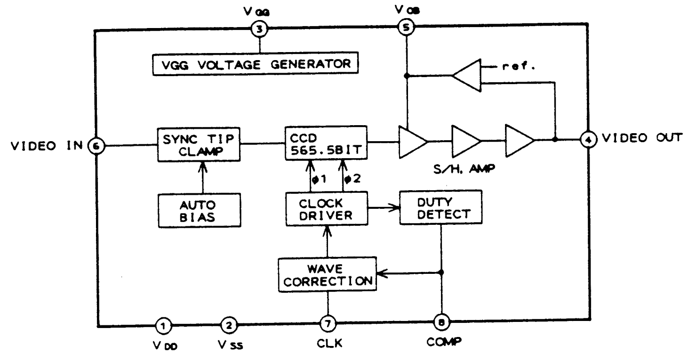

OUT DRIVE
OUT1
OUT2
VCC
OUT DRIVE
3
2
10
8
9
7 VCC
4 REG VOLTAGE
1 GND
LOGIC CONTROL
5
6
IN1
IN2

INPUT		OUTPUT		MODE
⑤	⑥	②	⑩	
H	H	L	L	BRAKE
L	H	L	H	CASSETTE & TAPE LOADING
H	L	H	L	CASSETTE & TAPE UNLOADING
L	L	OPEN	OPEN	STOP

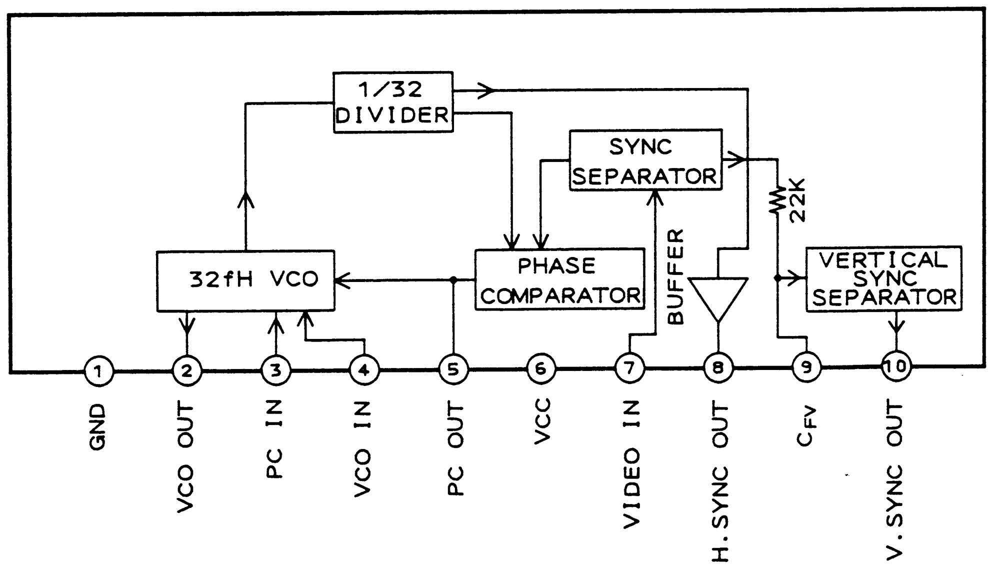
BA7765AS (AUDIO SIGNAL REC/PB AMPLIFIER)


GND 1
HEAD SW CTRL 2
EQ1 3
PB IN 4
PB NFB 5
PB EQ1 6
PB EQ2 7
PB OUT 8
LINE (PB) IN 9
PB/EE CONTROL 10
LINE IN 11
ALC FILTER 12
ALC LEVEL 13
LINE AMP OUT 14
ALC IN 15
LINE BF IN 16
32 REC HEAD SW
31 V REG
30 RIPPLE FILTER
29 VCC
28 VCC (REC +B)
27 REC +B OUT
26 REC TIMING
25 REC/EE CONTROL
24 REC OUT
23 REC NFB
22 REC EQ1
21 REC EQ2
20 REC IN
19 EQ CONTROL
18 MUTE CONTROL
17 LINE BF OUT
REC
REC
EQ1
REC
120KΩ
REC
V REG
VCC
VCC
PB
EQ1
EQ2
REC CTRL
20dB
REC
PB
EE
2KΩ
LINE
36dB
EQ1
EQ2
ALC
EQ1
EQ1+EQ2
100KΩ
MUTE
0dB
BF

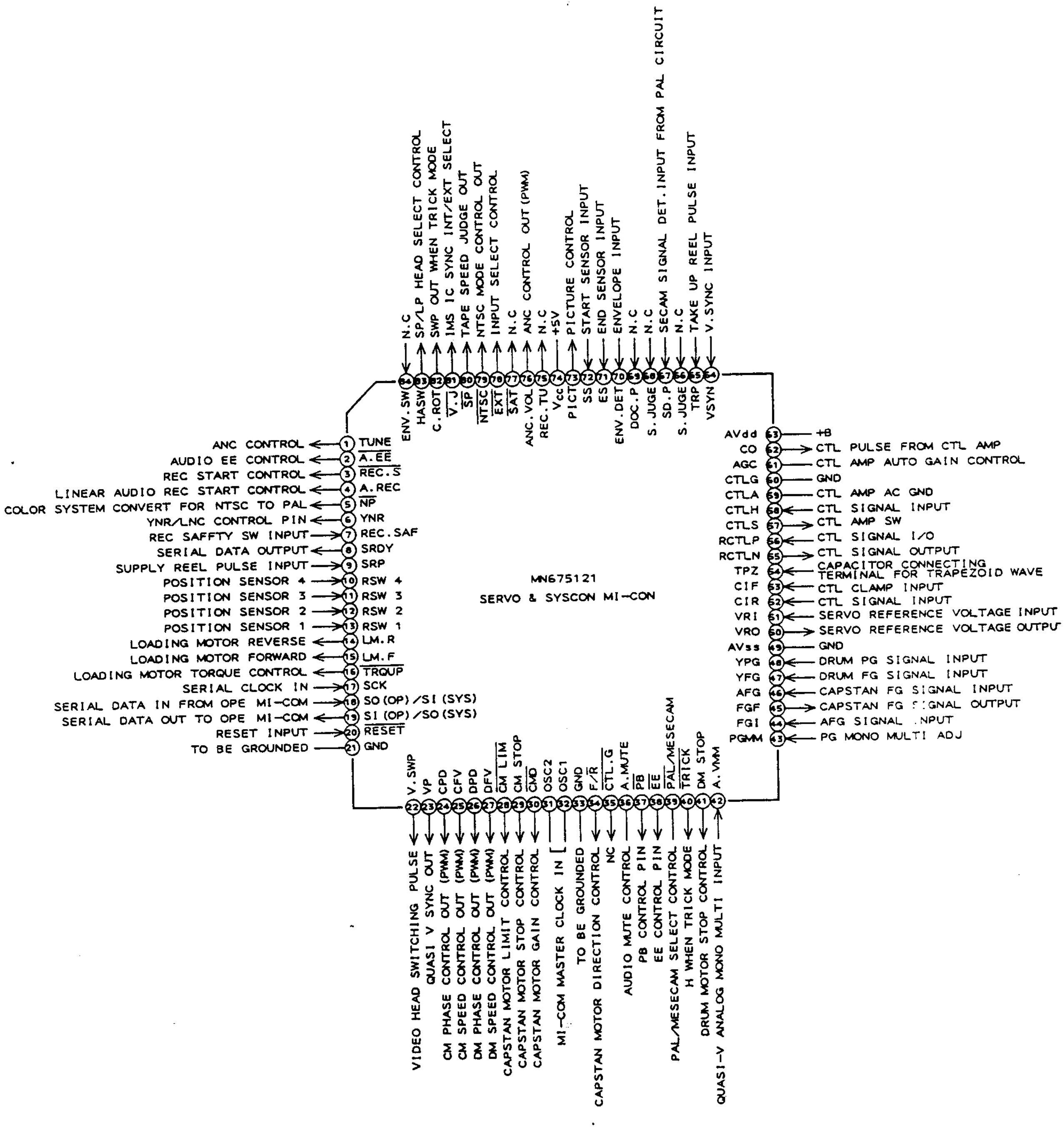
LC8992 (CCD 1H DELAY LINE)


VGG
3
VOB
5
VGG VOLTAGE GENERATOR
ref.
VIDEO IN 6
SYNC TIP CLAMP
CCD 565.5BIT
S/H. AMP
4 VIDEO OUT
AUTO BIAS
ϕ1
ϕ2
CLOCK DRIVER
DUTY DETECT
WAVE CORRECTION
1
VDD
2
VSS
7
CLK
8
COMP

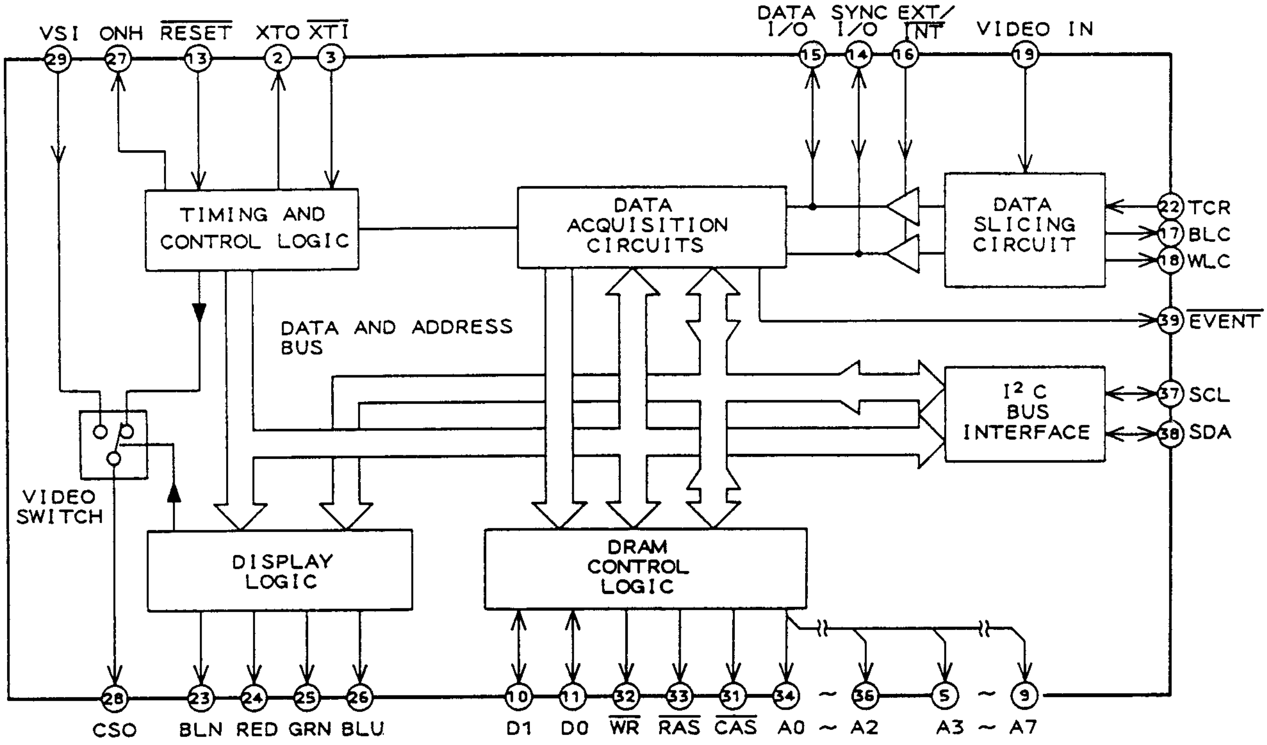
MM1068XS (SYNC SEPARATOR)


1/32 DIVIDER
SYNC SEPARATOR
22K
32fH VCO
PHASE COMPARATOR
BUFFER
VERTICAL SYNC SEPARATOR
1 GND
2 VCO OUT
3 PC IN
4 VCO IN
5 PC OUT
6 VCC
7 VIDEO IN
8 H.SYNC OUT
9 CFV
10 V.SYNC OUT

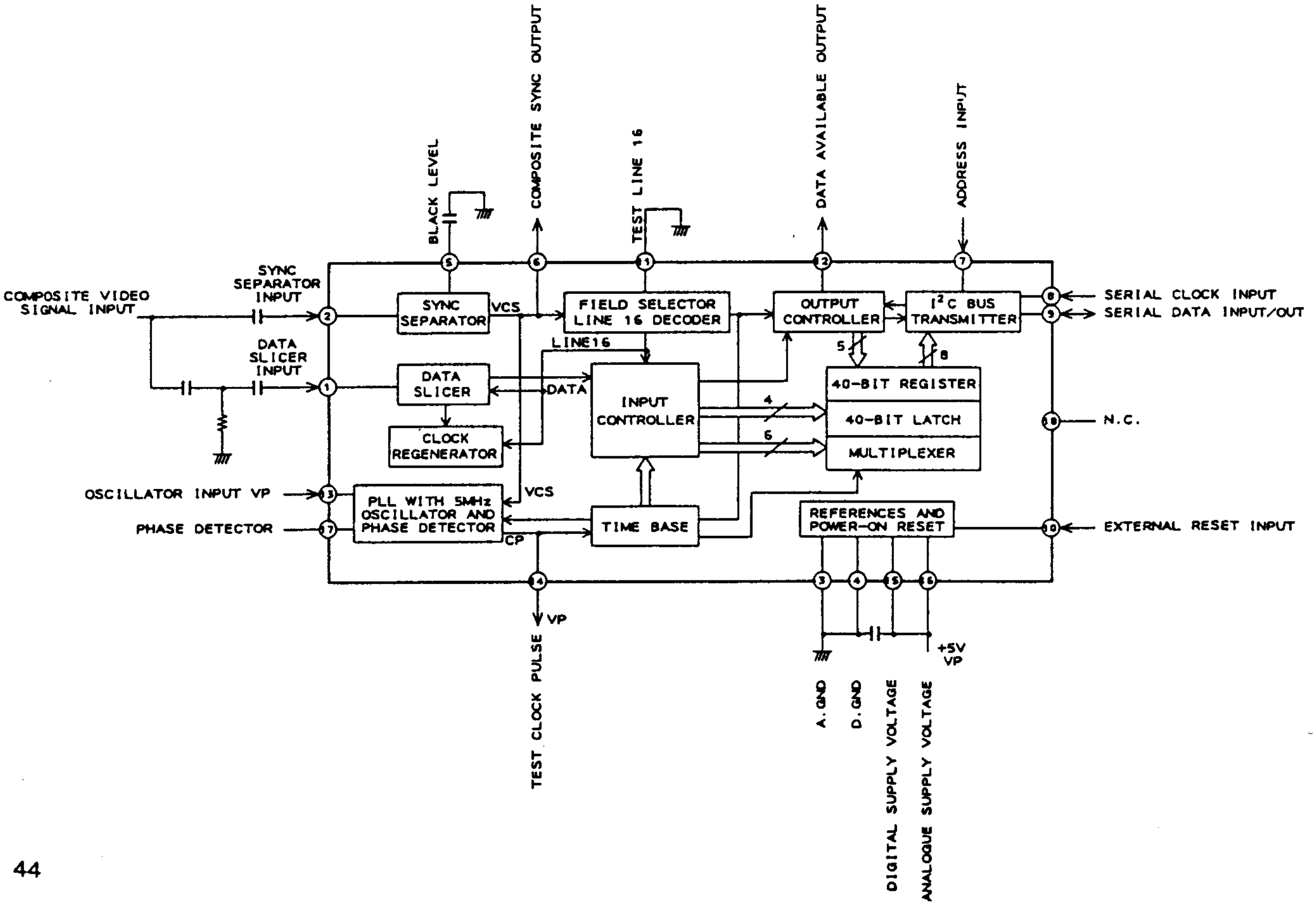
MN675121 (SERVO/SYSCON MI-COM)


MN675121
SERVO & SYSCON MI-CON
ANC CONTROL ① TUNE
AUDIO EE CONTROL ② A.EE
REC START CONTROL ③ REC.S
LINEAR AUDIO REC START CONTROL ④ A.REC
COLOR SYSTEM CONVERT FOR NTSC TO PAL ⑤ NP
YNR/LNC CONTROL PIN ⑥ YNR
REC SAFFTY SW INPUT ⑦ REC.SAF
SERIAL DATA OUTPUT ⑧ SRDY
SUPPLY REEL PULSE INPUT ⑨ SRP
POSITION SENSOR 4 ⑩ RSW 4
POSITION SENSOR 3 ⑪ RSW 3
POSITION SENSOR 2 ⑫ RSW 2
POSITION SENSOR 1 ⑬ RSW 1
LOADING MOTOR REVERSE ⑭ LM.R
LOADING MOTOR FORWARD ⑮ LM.F
LOADING MOTOR TORQUE CONTROL ⑯ TRQUP
SERIAL CLOCK IN ⑰ SCK
SERIAL DATA IN FROM OPE MI-COM ⑱ SO (OP) /SI (SYS)
SERIAL DATA OUT TO OPE MI-COM ⑲ SI (OP) /SO (SYS)
RESET INPUT ⑳ RESET
TO BE GROUNDED ㉑ GND
㉒ V.SWP VIDEO HEAD SWITCHING PULSE
㉓ VP QUASI V SYNC OUT
㉔ CPD CM PHASE CONTROL OUT (PWM)
㉕ CFV CM SPEED CONTROL OUT (PWM)
㉖ DPD DM PHASE CONTROL OUT (PWM)
㉗ DFV DM SPEED CONTROL OUT (PWM)
㉘ CM LIM CAPSTAN MOTOR LIMIT CONTROL
㉙ CM STOP CAPSTAN MOTOR STOP CONTROL
㉚ CMO CAPSTAN MOTOR GAIN CONTROL
㉛ OSC2
㉜ OSC1
MI-COM MASTER CLOCK IN
㉝ GND TO BE GROUNDED
㉞ F/R CAPSTAN MOTOR DIRECTION CONTROL
㉟ CTL.G NC
㊱ A.MUTE AUDIO MUTE CONTROL
㊲ PB PB CONTROL PIN
㊳ EE EE CONTROL PIN
㊴ PAL/MESECAM PAL/MESECAM SELECT CONTROL
㊵ TRICK H WHEN TRICK MODE
㊶ DM STOP DRUM MOTOR STOP CONTROL
㊷ A.VMM QUASI-V ANALOG MONO MULTI INPUT
PGMM ㊸ PG MONO MULTI ADJ
FGI ㊹ AFG SIGNAL .NPUT
FGF ㊺ CAPSTAN FG :IGNAL OUTPUT
AFG ㊻ CAPSTAN FG SIGNAL INPUT
YFG ㊼ DRUM FG SIGNAL INPUT
YPG ㊽ DRUM PG SIGNAL INPUT
AVss ㊾ GND
VRO ㊿ SERVO REFERENCE VOLTAGE OUTPU
VRI (51) SERVO REFERENCE VOLTAGE INPUT
CIR (52) CTL SIGNAL INPUT
CIF (53) CTL CLAMP INPUT
TPZ (54) CAPACITOR CONNECTING TERMINAL FOR TRAPEZOID WAVE
RCTLN (55) CTL SIGNAL OUTPUT
RCTLP (56) CTL SIGNAL I/O
CTLS (57) CTL AMP SW
CTLH (58) CTL SIGNAL INPUT
CTLA (59) CTL AMP AC GND
CTLG (60) GND
AGC (61) CTL AMP AUTO GAIN CONTROL
CO (62) CTL PULSE FROM CTL AMP
AVdd (63) +B
(64) VSYN V.SYNC INPUT
(65) TRP TAKE UP REEL PULSE INPUT
(66) S.JUGE N.C
(67) SD.P SECAM SIGNAL DET.INPUT FROM PAL CIRCUIT
(68) S.JUGE N.C
(69) DOC.P N.C
(70) ENV.DET ENVELOPE INPUT
(71) ES END SENSOR INPUT
(72) SS START SENSOR INPUT
(73) PICT PICTURE CONTROL
(74) Vcc +5V
(75) REC.TU N.C
(76) ANC.VOL ANC CONTROL OUT (PWM)
(77) SAT N.C
(78) EXT INPUT SELECT CONTROL
(79) NTSC NTSC MODE CONTROL OUT
(80) SP TAPE SPEED JUDGE OUT
(81) V.J IMS IC SYNC INT/EXT SELECT
(82) C.ROT SWP OUT WHEN TRICK MODE
(83) HASW SP/LP HEAD SELECT CONTROL
(84) ENV.SW N.C

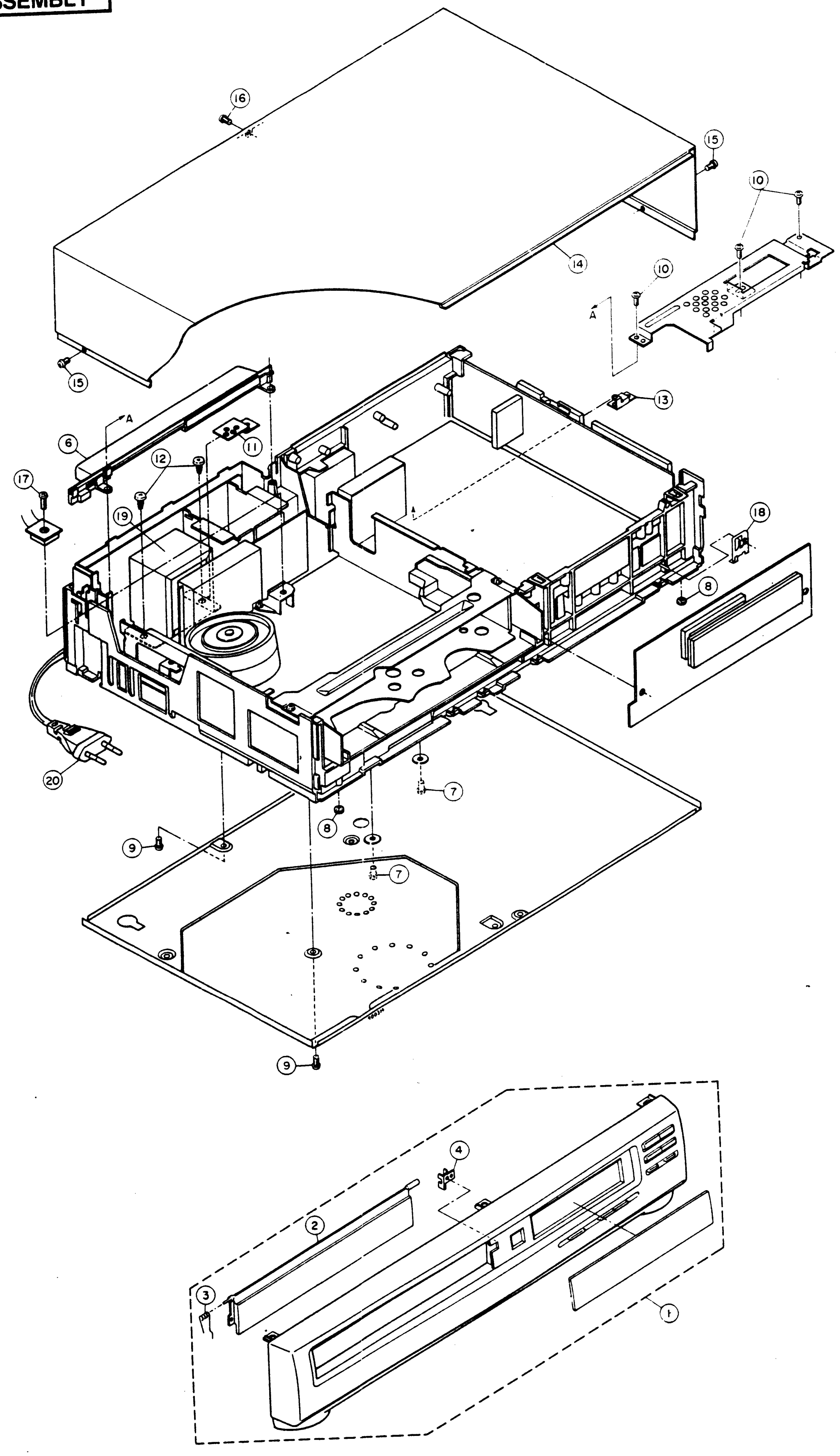
MV1815 (TELETEXT DECODER FOR 625 LINE OPERATION)


VSI
ONH
$\overline{\text{RESET}}$
XTO
$\overline{\text{XTI}}$
DATA I/O
SYNC I/O
EXT/$\overline{\text{INT}}$
VIDEO IN
29
27
13
2
3
15
14
16
19
TIMING AND CONTROL LOGIC
DATA ACQUISITION CIRCUITS
DATA SLICING CIRCUIT
22 TCR
17 BLC
18 WLC
39 $\overline{\text{EVENT}}$
DATA AND ADDRESS BUS
I²C BUS INTERFACE
37 SCL
38 SDA
VIDEO SWITCH
DISPLAY LOGIC
DRAM CONTROL LOGIC
28
23
24
25
26
10
11
32
33
31
34
36
5
9
CSO
BLN
RED
GRN
BLU
D1
D0
$\overline{\text{WR}}$
$\overline{\text{RAS}}$
$\overline{\text{CAS}}$
A0 ~ A2
A3 ~ A7

SAA4700 (VPS DATALINE PROCESSOR)


BLACK LEVEL
COMPOSITE SYNC OUTPUT
TEST LINE 16
DATA AVAILABLE OUTPUT
ADDRESS INPUT
5
6
11
12
7
COMPOSITE VIDEO SIGNAL INPUT
SYNC SEPARATOR INPUT
DATA SLICER INPUT
2
1
SYNC SEPARATOR
VCS
FIELD SELECTOR LINE 16 DECODER
OUTPUT CONTROLLER
I²C BUS TRANSMITTER
8
9
SERIAL CLOCK INPUT
SERIAL DATA INPUT/OUT
LINE16
DATA SLICER
DATA
INPUT CONTROLLER
5
8
40-BIT REGISTER
4
40-BIT LATCH
6
MULTIPLEXER
18
N.C.
CLOCK REGENERATOR
OSCILLATOR INPUT VP
13
PHASE DETECTOR
17
PLL WITH 5MHz OSCILLATOR AND PHASE DETECTOR
VCS
CP
TIME BASE
REFERENCES AND POWER-ON RESET
10
EXTERNAL RESET INPUT
14
3
4
15
16
VP
+5V VP
TEST CLOCK PULSE
A. GND
D. GND
DIGITAL SUPPLY VOLTAGE
ANALOGUE SUPPLY VOLTAGE

FINAL ASSEMBLY



11. POWER SUPPLY P.C BOARD

Ref.No.	Part No.	Description
C1	EC-406634J	C EC V SXE12 222M 25.0DC
C2	EC-363490	C EC V CUT SME 222M 16.0DC
C3	EC-406635J	C EC V SXE16 222M 35.0DC
C4	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C5	EC-406636J	C EC V T05 SXE6 270M 63.0DC
C10	EC-405612J	C EC V T05 SXE4 4R7M 50.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-511907	D SILICON 1N4002 100/1.0A
D6	*ED-511907	D SILICON 1N4002 100/1.0A
D7	*ED-511907	D SILICON 1N4002 100/1.0A
D8	*ED-511907	D SILICON 1N4002 100/1.0A
D9	*ED-511907	D SILICON 1N4002 100/1.0A
D10	*ED-511907	D SILICON 1N4002 100/1.0A
D11	*ED-511907	D SILICON 1N4002 100/1.0A
D12	*ED-511907	D SILICON 1N4002 100/1.0A
D13	ED-405373J	D ZENER H MTZJ16A T26
D14	ED-404032J	D ZENER H UTZJ39A
D15	ED-405524J	D ZENER H MTZJ36A T26
D16	*ED-404029J	D ZENER H UTZJ10B T26
D17	*ED-511907	D SILICON 1N4002 100/1.0A
D18	*ED-511907	D SILICON 1N4002 100/1.0A
FR1	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR2	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR3	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
FR4	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
FR5	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
TR1	*ET-381175J	TR 2SD1856
TR2	*ET-366365	TR 2SB1185 E,F
TR3	*ET-405622J	TR 2SD2061 E,F
TR4	*ET-405622J	TR 2SD2061 E,F
TR5	*ET-405622J	TR 2SD2061 E,F
TR6	*ET-405622J	TR 2SD2061 E,F
TR7	*ET-366365	TR 2SB1185 E,F

12. FINAL ASSEMBLY BLOCK

Ref.No.	Part No.	Description
1A	BD-404286J	PANEL FRONT VS-F260EK PART
1B	BD-407503J1	PANEL FRONT VS-F280EO PART
2A	SE-409256J	MASK CASSETTE VS-F260 (E)
2B	SE-409024J1	MASK CASSETTE VS-F280 (E)
3	ZG-387370J	SP MASK
4	SZ-401874J	STOPPER MASK
6	SC-387353J	COVER TRANS
7	ZS-362378	PLX BID30X10STL CMT
8	SA-387507J	FOOT SX
9	ZS-358936	ST BID30X06STL CMT
10	ZS-378341	PLX BID30X12STL CMT
11	ZG-387505J	PLATE EARTH
12	ZS-373962	PLX BID40X10STL CMT
13	ZG-387354J	PLATE EARTH (2)
14	SP-407479J	COVER UPPER JX
15	ZS-385611J	DT BID26X06STL BNI
16	ZS-391046J	PLX BID26X10STL BNI
17	ZS-357946	PLX PAN30X10STL CMT C080
18	ZG-392214J1	PLATE EARTH (3)
19	*BT-403872J	TRANS POW V1130 EK
20	*EW-404001M	AC CORD 200 VCTFK WITH TUBE B

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

13. ACCASSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2	AV-B1038A010A	REMOCON BLK RC-V250E

6-4. MODEL

1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1038A010A	REMOCON BLK RC-V250E
2	BB-V1130A020H	MECHA DECK BLK F260EA
3	BL-V1102A140A	ARM LOADING BLK 425EA
4	BL-V1102A050A	TENSION ARM BLK 425EA
5	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
6	BM-401296J	MOTOR E20EL89 [DRUM MOTOR]
7	BM-387503J	MOTOR PART [LOADING MOTOR]
8	*BT-403252J	TRANS POW V1130 EA
9	BV-V1102A150A	CASSETTE LOAD BLK 425EA
10	BV-V1102A070A	LEADER S BLK 425EA
11	BV-V1102A080A	LEADER T BLK 425EA
12	BV-V1123A410A	LOWER DRUM BLK X400EGN
13	BV-387610J	RF CONVERTER YAA21-0453 EA
14	BV-V1123A420A	UPPER DRUM BLK X400EGN
15	BV-403236J1	VIF UNIT KX EA
16	EA-387496J	PC (#) SENSOR
17	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
18	ED-390011J	D LED GL451 INFRARED [D1]
19	ED-390012J	D LED GL4800 INFRARED [D2]
20	ED-403450J	D LED SE303ARF-C INFRARED
21	ED-386031J	D SILICON CHIP MA110-TW
22	ED-366443	D SILICON H MA700FA5 F10
23	ED-307572	D SILICON H 1SS131
24	ED-511907	D SILICON 1N4002 100/1.0A
25	ED-397233J	D ZENER H HZS5C3
26	ED-387919J	D ZENER H HZS6A1L
27	ED-405373J	D ZENER H MTZJ16A T26
28	ED-403267J	D ZENER H MTZJ3.3B T26
29	ED-405524J	D ZENER H MTZJ36A T26
30	ED-403724J	D ZENER H UTZJ10A
31	*ED-404029J	D ZENER H UTZJ10B T26
32	ED-404032J	D ZENER H UTZJ39A
33	ED-403278J	D ZENER H UTZJ7.5B
34	ED-404086J	D ZENER H UTZJ7.5C
35	ED-403279J	D ZENER H UTZJ9.1B
36	EE-408417J	TV TUNER VTSS6AZV EA
37	EH-383083J	COMP R RGLE3X 103J
38	EH-403945J	COMP R RGLE9X 103J
39	EH-390730J	DL EFD-JF124A13J
40	EH-373920	FILTER CE SFE5.5MB
41	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
42	EH-714626	FILTER SAW SAF36.9MZ70Z
43	EI-408416J1	IC MN675121 XAV4 KBXSYP5
44	EI-373981J1	IC BA10393N
45	EI-373980	IC BA15218N
46	EI-353421	IC BA6229
47	EI-388360J	IC BA7765AS
48	EI-403231J	IC CD4066BE
49	EI-403250J	IC LA7376
50	EI-403234J1	IC LA7391A
51	EI-394856J	IC LC8992
52	EI-389622J	IC L5631
53	EI-403469J	IC MM1068XS
54	EI-368809	IC M51496P
55	EI-400756J	IC NJM4558L-B
56	EI-373955	IC S-8053ALR
57	EI-408393J	IC ST24C01B1
58	EI-376112	IC UPD6122G
59	EI-405722J	IC UPD6450CX-515
60	EI-408391J1	IC UPD75217CW-146 JBXOPP2
61	EI-403467J	OSC CE CSB500F40 15.680KHZ
62	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
63	EI-390687J	OSC CE CSU455PL 455KHZ
64	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
65	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
66	EI-368825	OSC X'TAL MX-38T 32.768KHZ
67	EI-381632J	OSC X'TAL 86686 4.433619MHZ
68	EM-401077J	IND FL FV496G CHARACTER
69	EO-388362J	COIL OSC 1 V1102
70	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
71	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
72	*ER-400728J	R FUSE V T05 RF25SCVTP1/4WR12K
73	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
74	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
75	*ER-408375J	R FUSE V T05RF25SCPVTP1/4WR12K
76	ER-403405J	R OMF H S12 FS 1W R75J
77	ES-373099	SW LEAF MTS10110MPC1
78	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
79	ES-408404J	SW TACT EVQ 235 07K T05 [260]
80	ES-408405J	SW TACT EVQ 235 09K T05 [261/262]
81	ES-349474	SW TACT SKHHAM004A
82	ET-381637J2	DETECTOR GP1U521X
83	ET-713614	TR CHIP 2SA1235 E,F
84	ET-725820J	TR CHIP 2SC2735J
85	ET-356336	TR DTA114ES
86	ET-354415	TR DTA144ES
87	ET-373985	TR DTA144TS
88	ET-353897	TR DTC114ES
89	ET-360399	TR DTC114TS
90	ET-354364	TR DTC143TS
91	ET-354414	TR DTC144ES
92	ET-361490	TR PHOTO PN268 [TR1]
93	ET-390010J	TR PHOTO PT4800 [TR2]
94	ET-390009J	TR PHOTO PT493F [TR4]
95	ET-364040	TR UN421D
96	ET-353899	TR 2SA1317 S,T,U
97	*ET-366365	TR 2SB1185 E,F
98	ET-388338J	TR 2SB1425 S,E
99	ET-375777	TR 2SC2926S P,Q
100	ET-397160J	TR 2SC3330 R,S,T,U,V
101	*ET-381175J	TR 2SD1856
102	*ET-391025J	TR 2SD2012
103	ET-405622J	TR 2SD2061 E,F
104	ET-390826J	TR.CHIP 2SD1619 T,U TC T08
105	HE-390013J	HEAD E HVFME0020A
106	HR-405340J	HEAD COMBO HVMZA1121A
107	MB-387289J	BELT CAPSTAN
108	MI-387294J	IDLER PART
109	ML-391745J3	ARM DAMPER
110	ML-387350J1	ARM LID OPENER
111	ML-387423J	ARM LOADING BRAKE
112	ML-387277J3	ARM REVIEW PART
113	ML-387402J1	LEVER TRIGGER
114	ML-387316J	MAIN BRAKE (S) PART
115	ML-387318J	MAIN BRAKE (T) PART
116	ML-387321J	REVIEW BRAKE PART
117	ML-387324J1	SLIDER BRAKE PART
118	ML-404944J	SLIDER TRIGGER (2)
119	MP-404852J	PINCH ROLLER (2) PART
120	MR-387406J	HOLDER THRUST WORM
121	MR-391968J	PULLEY TRIGGER (2)
122	MR-387286J1	ROLLER IMPEDANCE
123	MT-390954J1	DISK (2) PART
124	MZ-387298J3	DISK CLUTCH PART
125	MZ-387331J	GEAR CAM SLIDER
126	MZ-387335J	GEAR EJECT
127	MZ-387333J	GEAR FRONT LOADING
128	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
129	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
130	MZ-387332J	GEAR WORM WHEEL

※ Parts list for HEAD DRUM, MECHA. (1) and MECHA. (2) BLOCK refer to 6-1. EOH list (P25 to 28)

5. P.C BOARD BLK

Ref.No.	Part No.	Description
1	BA-V1130A600A	PC (#) MAIN (PAL) BLK F220EA
2	BA-V1130A610A	PC PRE AMP BLK F220EA
3A	BA-V1146A630A	PC OPERATION (A) BLK F260EA [260]
3B	BA-V1146A630B	PC OPERATION (A) BLK F261EA [261/262]
4	BA-V1130A500A	PC POWER BLK F220EDG

PC (#) MAIN (PAL) BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN (A) P.C BOARD
- MAIN (B) P.C BOARD

6. MAIN (A) P.C BOARD

Ref.No.	Part No.	Description
C369	*EC-391843J	C DOUBLE FYDOH 223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D8	ED-387919J	D ZENER H HZS6A1L
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-397233J	D ZENER H HZS5C3
D205	ED-403267J	D ZENER H MTZJ3.3B T26
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D212	ED-511907	D SILICON 1N4002 100/1.0A
D213	ED-511907	D SILICON 1N4002 100/1.0A
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-404086J	D ZENER H UTZJ7.5C
D304	ED-403724J	D ZENER H UTZJ10A
D305	ED-307572	D SILICON H 1SS131
D306	ED-307572	D SILICON H 1SS131
D307	ED-307572	D SILICON H 1SS131
D308	ED-307572	D SILICON H 1SS131
D309	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D405	ED-307572	D SILICON H 1SS131
D406	ED-366443	D SILICON H MA700FA5 F10
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D505	ED-307572	D SILICON H 1SS131
D506	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
DL500	EH-390730J	DL EFD-JF124A13J
FR201	*ER-400959J	R FUSE V T05 ERD2FCV 1/4W1200G
FR350	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
FR501	*ER-404093J	R FUSE V T05 RF25SCVTP1/4WR56K
IC1	EI-389622J	IC L5631
IC101	EI-403231J	IC CD4066BE
IC201	EI-400756J	IC NJM4558L-B
IC301	EI-408416J1	IC MN675121 XAV4 KBXSYP5
IC302	EI-353421	IC BA6229
IC303	EI-373980	IC BA15218N
IC400	EI-403234J1	IC LA7391A
IC401	EI-394856J	IC LC8992
IC402	EI-373981J1	IC BA10393N
L1	EO-373260	COIL FIX 1 LAP02 F05 1R0K
L101	EO-345881	COIL FIX 1 EL0606SKI 101J
L103	EO-356722	COIL FIX 1 LAP02 F05 6R8K
L301	EO-381196J	COIL FIX 1 EL0405SKI 470K
L302	EO-345881	COIL FIX 1 EL0606SKI 101J
L401	EO-354600	COIL FIX 1 LAP02 F05 101K
L402	EO-357508	COIL FIX 1 LAP02 F05 151K
L403	EO-381192J	COIL FIX 1 EL0405SKI 270K